

SIMPLIFIED SCIENTIFIC

EPHEMERIS

1910 - 1919



THE ROSICRUCIAN FELLOWSHIP

Oceanside, California, 92054, U.S.A.

Simplified Scientific
Ephemeris

1910

With Daily Aspectarian
Also Monthly Position of Pluto

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1918

AN EYE SAVER

A TIME SAVER

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The Rosicrucian Fellowship

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THE ROSICRUCIAN FELLOWSHIP

Oceanside, California, U.S.A.

EPHEMERIS OF PLUTO FOR 1910

Date	Long.	Dec.	Date	Long.	Dec.
January 7	25° II 25'R	16° N 19'	July 6	26° II 45'	16° N 47'
February 6	24° II 58'	16° N 22'	August 5	27° II 23'	16° N 47'
March 8	24° II 48'	16° N 28'	September 4	27° II 47'	16° N 45'
April 7	24° II 57'D	16° N 34'	October 4	27° II 53'	16° N 41'
May 7	25° II 24'	16° N 40'	November 3	27° II 39'R	16° N 39'
June 6	26° II 3'	16° N 45'	December 3	27° II 10'	16° N 37'

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THE ROSICRUCIAN FELLOWSHIP

OCEANSIDE, CALIFORNIA, U.S.A.

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1910

New Moon January 11th in $\text{vs } 20^\circ 24'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° W'	° W'	° W'	° W'	° W'	° W'	° W'	° W'	° W'	° W'	° W'	° W'
1	10 12	23 7	26 28	17 37	16 32	13 19	18 8	20 32	18 10	5	44	
2	11 14	23 46	27 58	29 41	33	24 18	39	35	8	41		
3	12 15	24 24	29 26	11 36	34	29 19	11	38	6	38		
4	13 16	25 0	0 53	23 26	36	34 19	43	42	5	35		
5	14 17	25 35	2 17	5 17	38	39 20	15	46	3	32		
6	15 18	26 8	3 38	17 13	40	43 20	47	49	1	28		
7	16 19	26 40	4 56	29 19	16 42	13 47	21 19	20 53	18 0	5	25	
8	17 21	27 10	6 11	11 39	44	51 21	52	56	17 58	22		
9	18 22	27 39	7 21	24 17	46	55 22	24	21 0	56	19		
10	19 23	28 6	8 26	7 14	48	58 22	57	4	54	16		
11	20 24	28 31	9 24	20 29	51 14	2 23	30	8	53	13		
12	21 25	28 55	10 16	4 3	53	5 24	3	11	51	9		
13	22 26	29 17	11 1	17 51	56	8 24	36	14	49	6		
14	23 28	29 36	11 36	1 51	16 59	14 11	25 10	21 18	17 48	5	3	
15	24 29	29 54	12 2	15 58	17 2	14 25	43	21	46	0		
16	25 30	0 10	12 19	0 8	4	16 26	17	25	44	4	57	
17	26 31	0 23	12 24	14 19	7	19 26	50	28	43	54		
18	27 32	0 34	12 17	28 27	11	21 27	24	32	41	50		
19	28 33	0 43	11 59	12 32	14	23 27	58	35	39	47		
20	29 34	0 50	11 30	26 32	17	25 28	32	39	38	44		
21	0 35	0 55	10 49	10 27	17 20	14 27	29 6	21 43	17 36	4	41	
22	1 36	0 56	9 58	24 16	24	28 29	40	46	34	37		
23	2 37	0 55	8 58	7 56	28	29 0 8	15	50	33	34		
24	3 38	0 52	7 51	21 26	31	30 0 49		53	31	31		
25	4 39	0 46	6 39	4 44	35	31 1 24		57	29	28		
26	5 40	0 38	5 24	17 48	39	32 1 58	22 0	28	28	25		
27	6 41	0 27	4 8	0 36	43	33 2 33		4	26	22		
28	7 42	0 14	2 53	13 8	17 47	14 33	3 7	22 7	17 25	4	18	
29	8 43	29 58	1 42	25 24	51	33 3 42		10	23	15		
30	9 44	40 0	37 7	28	55	33 4 17		14	22	12		
31	10 45	29 19	29 19	23 18	0	14 33	4 52	22 17	17 20	4	9	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1910

Full Moon January 25th in Ω $4^{\circ} 39'$

Declination of the Planets

D	S	T	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	18	41	23 4	13 55	22 47	9 36	4 9	4 3	7 33	22 20	21 31		
2		44	22 59	33 22	25 4	32	10	5	46	20	31		
3		48	53	12 22	1 0	s39	11	7	59	19	31		
4		52	47	12 51	21 37	5 47	12	9	8 18	18	31		
5		56	41	29 21	11 10	43	13	10	26	17	32		
6	19	0	34	8 20	44 15	18	14	11	39	17	32		
7	19	4	22 27	11 48	20 17	19 20	4 15	4 13	8 52	22 16	21 32		
8		8	20	27 19	49 22	37	16	14	9 6	16	32		
9		12	11	7 19	21 24	52	17	15	19	15	32		
10		16	3	10 47	18 52	25 52	18	16	32	15	32		
11		20	21 54	27 18	24 25	24	19	17	45	14	33		
12		24	45	8 17	57 23	27	20	18	58	14	33		
13		28	35	9 49	17 31	20 7	22	19	10 12	18	33		
14	19	32	21 25	9 30	17 5	15 35	4 23	4 20	10 25	22 13	21 33		
15		36	14	12 16	42 10	11	24	21	38	12	34		
16		40	3	8 54	16 21	4 15	25	22	51	12	34		
17		44	20 52	37 16	2 1	N55	27	23	11 4	11	34		
18		48	40	20 15	46 7	59	28	23	17	11	34		
19		52	28	4 15	33 13	39	30	24	30	10	35		
20		55	15	7 49	15 24	18 33	31	24	43	10	35		
21	19	59	20 2	7 34	15 18	22 24	4 33	4 25	11 56	22 9	21 35		
22	20	3	19 49	20 15	16 24	55	34	25	12 9	9	35		
23		7	35	7 15	17 25	54	36	25	22	8	36		
24		11	21 6	55 15	21 25	19	37	25	35	8	36		
25		15	6	43 15	28 23	18	39	25	48	7	36		
26		19	18 52	33 15	38 20	5	41	25	13 0	6	36		
27		23	37	23 15	49 15	59	43	25	13	5	37		
28	20	27	18 21	6 14	16 2	11 15	4 44	4 25	13 26	22 5	21 37		
29		31	5	6 16	16 6	11	46	25	38	4	37		
30		35	17 49	5 59	16 31	0 58	48	25	51	4	37		
31	20	39	17 33	5 53	16 46	4 s14	4 50	4 25	14 3	22 3	21 38		

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1910

New Moon February 10th in ♋ 20° 53'

Longitude of the Planets

☾	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
°	°	°	°	°	°	°	°	°	°	°	°
11 46	28R56	28R46	1 12	18 4	14R32	5 27	22 21	17R19	4 6		
2 12 47	28 31	28 3	13 2	9	32 6	2	24	17	3		
3 13 47	28 4	27 28	24 57	13	31 6	37	28	16	0		
4 14 48	27 35	27 1	7 2	18	30 7	13	31	14 3	57		
5 15 49	27 4	26 44	19 24	23	29 7	48	34	13	53		
6 16 50	26 32	26 34	2 13	27	27 8	23	38	11	50		
7 17 51	25 58	26 32	15 13	18 32	14 26	8 59	22 41	17 10	3 47		
8 18 51	25 23	26D37	28 43	37	24 9	34	44	8	43		
9 19 52	24 47	26 49	12 38	42	22 10	10	47	7	40		
10 20 53	24 10	27 7	26 52	48	20 10	45	51	6	37		
11 21 54	23 33	27 31	11 21	53	17 11	21	54	4	34		
12 22 54	22 56	28 1	25 56	58	15 11	57	57	3	31		
13 23 55	22 19	28 35	10 32	19 4	12 12	33	23 0	2	28		
14 24 56	21 42	29 15	25 1	19 9	14 9	13 9	23 3	17 0	3 24		
15 25 56	21 6	29 58	9 20	14	6 13	44	7 16	59	21		
16 26 57	20 30	0 45	23 26	20	3 14	20	10	58	18		
17 27 57	19 55	1 36	7 18	26	0 14	56	13	57	15		
18 28 58	19 22	2 30	20 58	31	13 56	15 32	16	56	12		
19 29 58	18 50	3 27	4 26	37	52 16	9	19	54	9		
20 0 59	18 20	4 27	17 43	43	48 16	45	22	53	5		
21 1 59	17 51	5 30	0 50	19 49	13 44	17 21	23 25	16 52	3 2		
22 3 0	17 24	6 34	13 45	55	40 17	57	28	51 2	59		
23 4 0	17 0	7 42	26 29	20 1	36 18	33	31	50	56		
24 5 0	16 38	8 51	9 2	7	31 19	10	34	49	53		
25 6 1	16 18	10 2	21 23	13	26 19	46	36	48	50		
26 7 1	16 1	11 15	3 32	19	21 20	22	39	47	46		
27 8 1	15 46	12 30	15 32	26	16 20	59	42	46	43		
28 9 1	15 33	13 47	27 24	20 32	13 11	21 35	23 45	16 45	2 40		

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1910

Full Moon February 24th in π $5^{\circ} 0'$

Declination of the Planets

D	S	T	☉ S	♀ S	♂ S	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	20	43	17 16	5 49	17 19	15 15	4 52	4 24	14 16	22 3	21 38
2		47	16 59	45	16 13	57	54	24	28	3	38
3		51	16 42	42	31 18	10	56	23	40	2	38
4		55	16 24	41	45 21	41	58	23	52	2	38
5		59	16 6	40	58 24	18	5	22	15 5	1	39
6	21	2	15 48	40	18 10	25 46	2	21	17	1	39
7	21	6	15 29	5 42	18 22	25 51	5 4	4 20	15 29	22 0	21 39
8		10	15 11	44	32 24	25	6	19	40	0	39
9		14	14 52	48	41 21	30	8	18	52	21 58	39
10		18	14 32	52	50 17	14	11	17	16 4	58	39
11		22	14 13	58	57 11	54	13	16	16	57	40
12		26	13 53	6 4	19 3	5 53	15	15	27	57	40
13		30	13 33	11	7 0	N 28	17	14	39	56	40
14	21	34	13 13	6 18	19 11	6 46	5 19	4 13	16 50	21 56	21 40
15		38	12 53	27	13 12	39	21	11	17 2	55	41
16		42	12 32	35	14 17	47	24	10	13	55	41
17		46	12 11	45	14 21	52	26	8	24	54	41
18		50	11 50	55	12 24	39	28	7	35	54	41
19		54	11 29	7 5	9 25	58	31	5	46	53	41
20		58	11 8	15	5 25	45	33	3	57	53	41
21	22	2	10 46	7 26	18 59	24 7	5 35	4 1	18 7	21 52	21 42
22		6	10 25	37	53 21	13	38 3	59	18	52	42
23		9	10 3	48	45 17	21	40	57	29	51	42
24		13	9 41	58	35 12	47	42	55	39	51	42
25		17	9 19	8 9	24 7	46	45	53	49	50	42
26		21	8 56	20	12 2	31	48	51	59	50	42
27		25	8 34	31	17 59	2 s 46	50	49	19 9	50	42
28	22	29	8 11	8 41	17 44	7 54	5 53	3 47	19 19	21 49	21 42

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1910

New Moon March 11th in ♋ 20° 2'

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
°	♋	♋	♋	♋	♋	♋	♋	♋	♋	♋	♋
1	10	2 15 _R 23	15 5	9 13	20 38	13 _R 6	22 11	23 48	16 _R 44	2	37
2	11	2 15 15	16 25	21 1	45	0	22 48	50	44		34
3	12	2 15 10	17 46	2 1 54	51	12 55	23 24	53	43		31
4	13	2 15 8	19 8	14 58	58	49	24 1	56	42		27
5	14	2 15 _D 7	20 32	27 17	21 4	43	24 37	58	41		24
6	15	2 15 10	21 58	9 15	58	37	25 14	24 1	40		21
7	16	2 15 14	23 24	23 4	21 18	12 31	25 51	24 3	16 40	2	18
8	17	2 15 21	24 52	6 38	24	24 26	27	6	39		15
9	18	2 15 30	26 22	20 40	31	18 27	4	8	38		12
10	19	2 15 41	27 52	5 8	38	11 27	41	10	38		8
11	20	2 15 55	29 24	19 56	45	5 28	17	13	37		5
12	21	2 16 10	0 1 57	4 1 54	52	11 58	28 54	15	37		2
13	22	2 16 28	2 31	19 54	59	51 29	31	17	36	1	59
14	23	2 16 47	4 6	4 8 47	22 6	11 44	0 11 7	24 20	16 36	1	55
15	24	1 17 9	5 43	19 26	13	37 0	44	22	35		52
16	25	1 17 32	7 20	3 11 45	20	30 1	21	24	35		49
17	26	1 17 56	8 59	17 45	27	23 1	58	26	34		46
18	27	1 18 23	10 39	1 25 24	34	16 2	35	28	34		43
19	28	0 18 51	12 21	14 45	41	8 3	12	30	34		40
20	29	0 19 21	14 3	27 49	48	1 3	49	32	33		37
21	29 59	19 52	15 47	10 13 39	22 56	10 54	4 26	24 34	16 33	1	33
22	0 1 59	20 24	17 33	23 16 23	3	46 5	3	36	33		30
23	1 58	20 58	19 19	5 11 42	10	39 5	39	38	33		27
24	2 58	21 33	21 7	17 59	17	31 6	16	40	33		24
25	3 57	22 10	22 56	0 25 7	25	23 6	53	42	33		21
26	4 57	22 48	24 46	12 7	32	16 7	30	43	32		17
27	5 56	23 27	26 38	24 1	39	8 8	7	45	32		14
28	6 55	24 7	28 31	5 11 51	23 47	10 0	8 44	24 47	16 32	1	11
29	7 55	24 48	0 1 25	17 38	54 9	53 9	21	48	32		8
30	8 54	25 31	2 21	29 27	24 2	45 9	58	50	32		5
31	9 53	26 14	4 18	11 1 21	24 9	9 37	10 35	24 51	16 33	1	2

Calculated for Mean Noon at Greenwich

March 1910

Full Moon March 25th in ☾ $3^{\circ} 57'$

Declination of the Planets

D	S	T	○	S	♀	S	♀	S	D	S	♂	N	♂	S	♂	N	♂	S	♂	N
1	22	33	7	49	8	51	17	28	12	44	5	55	3	45	19	29	21	49	21	43
2		37	7	26	9	1	17	11	17	7		58		42		39		49		43
3		41	7	3		10	16	53	20	51	6	0		40		49		48		43
4		45	6	40		19	16	33	23	45		2		37		58		48		43
5		49	6	17		28	16	11	25	37		5		35	20	7		47		43
6		53	5	54		36	15	49	26	12		8		32		17		47		43
7	22	57	5	30	9	44	15	25	25	22	6	11	3	30	20	26	21	46	21	43
8	23	15	7			51	15	0	23	3		14		27		35		46		43
9		54	44			58	14	34	19	18		16		25		43		45		44
10		94	20	10		4	14	6	14	18		18		22		52		45		44
11		13	3	57	10	10	13	37	8	22		21		20	21	1		44		44
12		17	3	33		15	13	7	1	53		24		17		9		44		44
13		20	3	10		19	12	36	4	N44		27		14		17		44		44
14	23	24	2	46	10	23	12	3	11	3	6	30	3	11	21	25	21	44	21	44
15		28	2	22		27	11	29	16	39		32		8		33		43		44
16		32	1	59		30	10	54	21	12		35		5		41		43		44
17		36	1	35		32	10	18	24	23		38		3		49		42		45
18		40	1	11		34	9	40	26	3		40		0		57		42		45
19		44	0	47		35	9	2	26	10		43	2	57	22	4		42		45
20		48	0	24		36	8	22	24	48		45		54		11		42		45
21	23	52	0	0	10	36	7	40	22	10	6	48	2	51	22	18	21	41	21	45
22		56	0	N24		35	6	58	18	31		51		48		25		41		45
23	0	0	0	47		34	6	15	14	7		54		45		32		40		45
24		4	1	11		32	5	30	9	11		57		42		39		40		45
25		8	1	35		29	4	44	3	58	7	0		39		45		40		45
26		12	1	58		26	3	57	1	s20		2		36		52		40		45
27		16	2	22		23	3	9	6	34		5		33		58		39		45
28	0	20	2	45	10	19	2	20	11	33	7	8	2	30	23	4	21	39	21	45
29		24	3	9		14	1	30	16	7		11		27		10		39		45
30		27	3	32		9	0	39	20	4		14		23		15		39		45
31																				

[illegible]

Calculated for Mean Noon at Greenwich

April, 1910

Full Moon April 24th in $m. 3^{\circ} 25'$

Declination of the Planets

D	S	T	N	♀	♂	S	N	S	N	S	N	S	N	♂	S	N	♂	S	N	
1	0	35	4	18	9	56	1	5	25	24	7	19	2	17	23	26	21	38	21	45
2		39	4	42		49	1	59	26	24		22		14		32		38		45
3		43	5	5		42	2	53	26	4		25		11		37		38		46
4		47	5	28		33	3	48	24	19		28		8		42		38		45
5		51	5	51		25	4	44	21	10		30		5		46		37		45
6		55	6	13		15	5	40	16	44		33		2		51		37		45
7	0	59	6	36	9	6	6	36	11	12	7	36	1	59	23	55	21	37	21	45
8	1	3	6	59	8	55	7	32	4	54		39		57		59		37		45
9		7	7	21		45	8	28	1	N48		41		54	24	3		36		45
10		11	7	43		33	9	24	8	27		44		51		7		36		45
11		15	8	6		22	10	20	14	37		47		48		11		36		45
12		19	8	28		9	11	15	19	49		50		45		15		36		45
13		23	8	50	7	57	12	9	23	40		53		42		18		36		45
14	1	27	9	11	7	43	13	2	25	56	7	55	1	39	24	21	21	36	21	45
15		31	9	33		30	13	54	26	29		58		37		25		36		45
16		35	9	54		16	14	45	25	28	8	1		34		27		36		45
17		38	10	16		1	15	34	23	5		4		31		30		35		45
18		42	10	37	6	46	16	21	19	36		6		28		32		35		45
19		46	10	58		31	17	5	15	20		9		26		34		35		45
20		50	11	19		15	17	48	10	30		12		23		36		35		45
21	1	54	11	39	5	59	18	29	5	21	8	15	1	21	24	38	21	35	21	45
22		58	12	0		42	19	7	0	2		18		18		40		35		45
23	2	2	12	20		25	19	43	5	s15		20		16		42		35		45
24		6	12	40		8	20	16	10	20		22		14		43		35		45
25		10	12	59	4	50	20	46	15	3		25		12		44		35		44
26		14	13	19		32	21	14	19	12		28		9		45		35		44
27		18	13	38		14	21	40	22	37		31		7		46		35		44
28	2	22	13	58	3	55	22	3	25	4	8	34	1	5	24	47	21	35	21	44
29		26	14	16		36	22	23	26	24		36		3		47		35		44
30	2	30	14	35	3	17	22	41	26	26	8	39	1	1	24	48	21	35	21	4

D	°	⊙	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	
	°	⊙	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	
1	10	13	24	13	0	55	27	27	28	4	6	R	3	29	47	25R	14	16	52	29	23
2	11	11	25	14	1	57	10	26		12	5	58	0	24		14		53		20	
3	12	9	26	16	2	53	23	49		19		53	1		1	13		54		17	
4	13	7	27	18	3	45	7	38		27		48	1	38		13		55		13	
5	14	5	28	20	4	32	21	52		34		43	2	16		13		56		10	
6	15	4	29	23	5	14	6	31		42		39	2	53		13		57		7	
7	16	2	0	25	5	51	21	28	28	49	5	34	3	30	25	12	16	59	29	4	
8	17	0	1	28	6	22	6	37		57		30	4	7		12	17	0		1	
9	17	58	2	32	6	49	21	47	29	4		25	4	45		12		1	28	58	
10	18	56	3	35	7	10	6	51		11		21	5	22		11		3		54	
11	19	54	4	37	7	27	21	38		19		18	5	59		10		4		51	
12	20	52	5	43	7	37	6	4		26		14	6	36		10		5		48	
13	21	50	6	47	7	44	20	3		33		10	7	14		9		7		45	
14	22	47	7	51	7	44	3	37	29	40	5	7	7	51	25	9	17	8	28	42	
15	23	45	8	55	7	R+0	16	44		48		4	8	28		8		10		39	
16	24	43	10	0	7	32	29	29		55		1	9	5		7		11		35	
17	25	41	11	5	7	19	11	m	55	0	8	2	4	58	9	43	6	13		32	
18	26	39	12	10	7	2	24	6		9		55	10	20		5	14		29		
19	27	36	13	15	6	42	6	5		16		53	10	57		4	16		26		
20	28	34	14	21	6	18	17	58		23		51	11	34		4	17		23		
21	29	32	15	26	5	51	29	47	0	30	4	48	12	12	25	3	17	19	28	20	
22	0	Π	30	16	32	5	21	11	m	35		37		46	12	49	2	21		17	
23	1	27	17	38	4	49	23	25		44		45	13	26		1	22		13		
24	2	25	18	44	4	16	5	20		51		43	14	3	24	59	24		10		
25	3	22	19	50	3	42	17	21		58		42	14	41		58	26		7		
26	4	20	20	56	3	8	29	31	1	5		40	15	18		57	27		4		
27	5	18	22	3	2	35	11	v	51		11		39	15	55		56	29		1	
28	6	15	23	9	2	2	24	24	1	18	4	39	16	33	24	54	17	31	27	57	
29	7	13	24	16	1	31	7	12		25		38	17	10		53		33		54	
30	8	10	25	23	1	1	20	16		32		37	17	47		52		34		51	
31	9	8	26	30	0	34	3	39	1	38	4	37	18	24	24	50	17	36	27	48	

SIMPLIFIED SCIENTIFIC
EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1910

Eclipse of Moon May 24th in $\uparrow$ $2^{\circ} 25'$

Declination of the Planets

D	S	T	☉		♀		♂		♂		♂		♂		♂	
			N		S		N		S		N		S		N	
1	2	34	14	54	2	57	22	57	25	7	8	41	0	59	24	48
2		38	15	12	2	37	23	10	22	28		44		57		48
3		42	15	30	2	17		21	18	33		47		55		48
4		45	15	47	1	56		30	13	32		49		53		47
5		49	16	5	1	36		36	7	40		52		52		47
6		53	16	22	1	15		40	1	13		55		50		46
7	2	57	16	39	0	53	23	42	5	N26	8	57	0	48	24	45
8	3	1	16	55	0	32		42	11	53		59		47		44
9		5	17	12	0	11		39	17	39	9	2		45		43
10		9	17	28	0	N11		35	22	15		5		44		41
11		13	17	43	0	33		29	25	17		7		43		39
12		17	17	59	0	55		20	26	34		9		42		38
13		21	18	14	1	18		10	26	4		12		40		36
14	3	25	18	29	1	40	22	58	24	2	9	14	0	39	24	33
15		29	18	43	2	3		44	20	46		17		38		31
16		33	18	58	2	25		29	16	36		20		37		28
17		37	19	12	2	48		12	11	51		22		36		26
18		41	19	25	3	11	21	53	6	43		24		35		23
19		45	19	38	3	34		34	1	25		27		34		20
20		49	19	51	3	57		13	3	s53		29		34		16
21	3	52	20	4	4	20	20	51	9	2	9	31	0	33	24	13
22		56	20	16	4	43		29	13	52		34		33		9
23	4	0	20	28	5	6		6	18	12		36		32		6
24		4	20	39	5	30	19	43	21	51		38		32		2
25		8	20	51	5	53		19	24	35		41		31	23	58
26		12	21	1	6	16	18	57	26	12		43		31		53
27		16	21	12	6	40		34	26	34		45		31		49
28	4	20	21	22	7	3	18	12	25	34	9	47	0	31	23	44
29		24	21	32	7	26	17	52	23	15		50		31		39
30		28	21	41	7	49		33	19	42		52		31		34
31	4	32	21	50	8	12	17	15	15	4	9	54	0	31	23	29

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1910

New Moon June 7th in Π 15°

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° Π'	° γ'	° Π'	° $\times'$	° δ'	° $\equiv'$	° $\subseteq'$	° $\supset'$	° Ψ'	° δ'	
1	10 5	27 37	0 R10	17 22	1 45	4 37	19 2	24R49	17 38	27 45	
2	11 3	28 45	29850	1 γ 24	51	37	19 39	47	40	41	
3	12 0	29 52	33	15 46	58	37	20 16	46	42	38	
4	12 58	1 δ 0	29 20	0 δ 25	2 4	37	20 54	44	44	35	
5	13 55	2 7	29 11	15 16	11	38	21 31	43	46	32	
6	14 52	3 15	29 6	0 Π 12	17	39	22 8	41	48	29	
7	15 50	4 23	29 6	15 6	2 23	4 40	22 46	24 39	17 49	27 26	
8	16 47	5 31	29D10	29 50	29	41	23 23	38	51	22	
9	17 45	6 39	29 19	14 $\subseteq$ 17	36	42	24 0	36	53	19	
10	18 42	7 47	29 32	28 21	42	44	24 37	34	55	16	
11	19 39	8 55	29 49	12 Ω 0	48	45	25 15	32	57	13	
12	20 37	10 4	0 Π 11	25 13	54	47	25 52	31	59	9	
13	21 34	11 12	0 38	8 μ 2	3 0	49	26 30	29	18 1	6	
14	22 31	12 21	1 9	20 30	3 6	4 51	27 7	24 27	18 4	27 3	
15	23 29	13 29	1 44	2 $\equiv$ 40	11	54	27 44	25	6	0	
16	24 26	14 38	2 23	14 39	17	56	28 22	23	8	26 57	
17	25 23	15 47	3 7	26 29	23	59	28 59	21	10	54	
18	26 21	16 56	3 55	8 μ 17	28	5	29 36	19	12	50	
19	27 18	18 54	4 47	20 7	34	5	0 Ω 14	17	14	47	
20	28 15	19 14	5 43	2 γ 1	39	8	0 51	15	16	44	
21	29 12	20 23	6 42	14 4	3 45	5 11	1 29	24 13	18 18	26 41	
22	0 $\subseteq$ 9	21 32	7 46	26 17	50	15	2 6	11	20	38	
23	1 7	22 41	8 53	8 $\supset$ 41	55	18	2 43	8	22	35	
24	2 4	23 51	10 4	21 19	4 1	22	3 21	6	25	31	
25	3 1	25 0	11 18	4 $\approx$ 11	6	26	3 58	4	27	28	
26	3 58	26 10	12 36	17 16	11	30	4 36	2	29	25	
27	4 56	27 19	13 58	0 $\times$ 34	16	35	5 13	0	31	22	
28	5 53	28 29	15 23	14 6	4 21	5 39	5 50	23 57	18 33	26 19	
29	6 50	29 39	16 52	27 51	26	44	6 28	55	35	16	
30	7 47	0 Π 48	18 24	11 γ 48	4 30	5 49	7 5	23 53	18 38	26 12	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1910

Full Moon June 22nd in $\vee 0^{\circ} 9'$

Declination of the Planets

D	S	T	☉ N	♀ N	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	4	36	21 59	8 35	16 58	9 35	9 56	0 31	23 24	21 40	21 39
2		40	22 7	8 58		44 3	30 58	31 19		40 39	
3		44		15 9	21 31	2 N 55	10 0	32 13		41 38	
4		48		22 9	44 21	9 19	2 32	7 41		38 38	
5		52		29 10	7 12	15 17	4 32	1 42		38 38	
6		56		36 10	30 6	20 23	6 33	22 55		42 38	
7	5	0	22 42	10 52	16 2	24 9	10 8	0 34	22 48	21 42	21 37
8		3	48 11	14 48		0 26	13 10	34 42		42 37	
9		7	53 11	37 53		0 26	27 12	35 36		43 37	
10		11	58 11	59 58		2 24	58 14	36 29		43 37	
11		15	23 3	12 20		6 22	3 16	37 22		44 37	
12		19		7 12	42 12	18 3	18 38	15 44		37 37	
13		23		11 13	3 19	13 21	20 39	8 44		36 36	
14	5	27	23 14	13 25	16 29	8 14	10 22	0 40	22 0	21 44	21 36
15		31		18 13	46 40	2 54	24 41	21 53		45 36	
16		35		20 14	6 52	2 S 27	26 42	45 45		36 36	
17		39		22 14	27 17	6 7	40 27	43 37		46 35	
18		43		24 14	47 22	12 36	29 44	29 46		35 35	
19		47		25 15	7 38	17 5	31 46	21 47		34 34	
20		51		26 15	27 55	20 56	33 47	13 47		34 34	
21	5	55	23 27	15 46	18 14	23 56	10 34	0 49	21 5	21 47	21 34
22		59		27 16	5 33	25 52	35 51	20 56		47 34	
23	6	3		27 16	24 53	26 33	37 53	47 48		33 33	
24		7		26 16	42 19	13 25	53 39	55 39		48 33	
25		10		25 17	0 34	23 50	40 56	30 49		33 33	
26		14		24 17	18 55	20 31	42 58	20 49		33 33	
27		18		22 17	35 20	17 16	7 43	1 0	11 50	32 32	
28	6	22	23 19	17 52	20 38	10 51	10 45	1 2	20 2	21 50	21 32
29		26		17 18	9 58	4 58	46 4	19 52		51 32	
30	6	30	23 13	18 25	21 19	1 N 15	10 48	1 6	19 43	21 51	21 32

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1910

New Moon July 6th in ϖ $13^{\circ} 30'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
°	°	°	°	°	°	°	°	°	°	°	°	°
′	′	′	′	′	′	′	′	′	′	′	′	′
″	″	″	″	″	″	″	″	″	″	″	″	″
1	8 41	1 58	20 0	25 58	4 35	5 54	7 43	23 51	18 40	26 9		
2	9 42	3 8	21 39	10 8	18 40	59 8	20 48	42 46	44 3	0 41		
3	10 39	4 18	23 22	24 46	44 6	4 8	58 46	44 46	25 57	53 53		
4	11 36	5 28	25 7	9 11	20 49	9 9	35 41	49 51				
5	12 33	6 39	26 56	23 52	53 57	15 10	13 20	50 39				
6	13 30	7 49	28 48	8 51	19 5	2 26	11 28	23 37	18 53	25 50		
7	14 28	8 59	0 52	22 34	5 6	32 12	5 34	55 47				
8	15 25	10 10	2 39	6 31	10 10	38 12	43 32	58 44				
9	16 22	11 20	4 38	20 6	14 14	45 13	20 29	19 0	41 38			
10	17 19	12 31	6 39	3 19	18 18	51 13	58 27	2 34				
11	18 17	13 41	8 43	16 9	22 22	58 14	35 25	4 31				
12	19 14	14 51	10 48	28 37	25 7	4 15	13 22	7 25				
13	20 11	16 2	12 54	10 49	5 29	7 11	15 50	23 20	19 9	25 28		
14	21 8	17 13	15 2	22 47	5 32	18 16	28 17	11 25				
15	22 5	18 24	17 10	4 38	36 36	25 17	6 15	13 21				
16	23 3	19 35	19 18	16 27	39 39	32 17	43 13	15 18				
17	24 0	20 46	21 27	28 18	43 43	40 18	21 10	18 15				
18	24 57	21 57	23 36	10 17	46 46	47 18	59 8	20 12				
19	25 54	23 8	25 44	22 27	49 49	55 19	36 5	22 9				
20	26 52	24 19	27 51	4 51	5 52	8 2	20 14	23 3	19 24	25 6		
21	27 49	25 30	29 58	17 32	5 54	10 20	51 1	27 2				
22	28 46	26 41	2 0	4 29	57 57	18 21	29 22	58 29	24 59			
23	29 43	27 53	4 8	13 43	6 0	26 22	7 56	31 56				
24	0 41	29 4	6 11	27 12	6 3	34 22	44 53	33 53				
25	1 38	0 51	8 13	10 52	5 5	42 23	22 51	35 50				
26	2 35	1 27	10 13	24 42	8 8	51 24	0 49	37 47				
27	3 33	2 38	12 12	8 39	6 10	8 59	24 38	22 46	19 40	24 43		
28	4 30	3 50	14 9	22 42	6 12	9 8	25 15	44 42	40 40			
29	5 25	5 2	16 5	6 48	14 14	17 25	53 42	44 37				
30	6 25	6 13	17 59	20 57	6 16	9 26	26 31	22 39	19 46	24 34		
31	7 22	7 25	19 51	5 11	7 6							

Calculated for Mean Noon at Greenwich

July, 1910

Full Moon July 22nd in $\gamma 28^{\circ} 46'$

Declination of the Planets

D	ST	⊙		♀	♂	Δ	♂	2	♂	♂	Ψ
		N		N	N	N	N	S	N	S	N
1	6	34	23 10	18 41	21 39	7 30	10 49	1 8	19 33	21 51	21 31
2		38	6	56	58	13 27	50	10	23	51	31
3		42	1 19	11 22	16 18	44	52	13	13	52	31
4		46	22 57	25	33	22 54	53	15	3	52	31
5		50	52	39	48	25 36	54	18	18 52	53	30
6		54	46	53 23	2	26 33	56	20	42	53	30
7	6	58	22 40	20 6	23 15	25 43	10 57	1 23	18 31	21 54	21 29
8	7	2	34	18	25	23 18	58	25	21	54	29
9		6	27	30	33	19 36	59	28	10	55	29
10	10	20	42	39	15	2	11 0	30	17 59	55	29
11	14	12	53	42	9	56	1	33	48	56	28
12	18	4	21 3	43	4	33	2	36	37	56	28
13	21	21 56	13	41	0	53	3	39	26	56	28
14	7	25	21 47	21 23	23 36	6 12	11 4	1 42	17 14	21 56	21 28
15		29	38	32	29	11 15	5	45	3	57	27
16		33	29	40	19	15 53	6	48	16 51	57	27
17		37	19	48	6	19 55	7	51	39	58	26
18		41	9	55	22 50	23 11	7	54	28	58	26
19		45	20 59	22 2	32	25 27	8	57	16	59	26
20		49	48	8	12	26 31	9 2	0	4	59	26
21	7	53	20 36	22 13	21 49	26 13	11 10	2 3	15 51	22 0	21 25
22		57	25	18	24	24 30	10	6	39	0	25
23	8	1	13	22	20 57	21 26	11	10	27	1	25
24		5	1	26	28	17 12	12	14	14	1	25
25		9	19 48	29	19 57	12 0	13	17	2	1	24
26		13	35	31	25	6 10	13	20	14 49	1	24
27		17	22	33	18 51	0 N 2	14	23	36	2	23
28	8	21	19 9	22 34	18 16	6 16	11 14	2 27	14 24	22 2	21 23
29		25	18 55	34	17 40	12 15	15	31	11	3	23
30		28	41	34	3	17 36	15	35	13 58	3	23
31	8	32	18 26	22 33	16 25	21 59	11 16	2 38	13 45	22 4	21 22

SIMPLIFIED SCIENTIFIC

EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1910

New Moon August 5th in Ω $12^{\circ} 9'$

Longitude of the Planets

D	°	′	″	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓						
1	8	20	8	37	21	42	19	17	6	18	9	35	27	9	22R37	19	48	24	31		
2	9	17	9	49	23	32	3	5	25	20		44	27	47		35	50		27		
3	10	14	11	1	25	19	17	28		22		53	28	24		33	53		24		
4	11	12	12	13	27	5	1	Ω	20	24	10	2	29	2		30	55		21		
5	12	9	13	25	28	49	15	0		25		11	29	40		28	57		18		
6	13	7	14	37	0m	32	28	22		26		21	0m	18		26	59		15		
7	14	4	15	49	2	13	11m	26	6	28	10	30	0	56	22	24	20	1	24	12	
8	15	2	17	1	3	53	24	10		29		40	1	34		21	3		8		
9	16	0	18	14	5	31	6	≡	35	30		50	2	12		19	5		5		
10	16	57	19	26	7	7	18	45		31	11	0	2	50		17	7		2		
11	17	55	20	38	8	42	0	m	42	32		10	3	28		15	9	23	59		
12	18	52	21	51	10	15	12	33		33		20	4	6		13	11		56		
13	19	50	23	3	11	47	24	21		33		30	4	44		11	13		53		
14	20	48	24	15	13	17	6	†	13	6	34	11	40	5	22	22	9	20	15	23	49
15	21	45	25	28	14	46	18	14		34		50	6	0		7	17		46		
16	22	43	26	41	16	13	0	∞	28	35	12	1	6	38		5	19		43		
17	23	41	27	54	17	38	13	1		35		11	7	16		3	21		40		
18	24	38	29	6	19	2	25	53		35		22	7	54		1	23		37		
19	25	36	0	Ω	19	20	24	9	≈	35		32	8	32	21	59	25		34		
20	26	34	1	32	21	44	22	42		R35		43	9	10		57	27		30		
21	27	31	2	45	23	3	6	×	35	6	35	12	54	9	48	21	56	20	28	23	27
22	28	29	3	58	24	30	20	42		35	13	5	10	26		54	30		24		
23	29	27	5	11	25	35	4	γ	57	35		16	11	4		52	32		21		
24	0m	25	6	24	26	48	19	15		34		27	11	43		50	34		18		
25	1	23	7	37	27	59	3	8	33	33		38	12	21		49	36		15		
26	2	21	8	50	29	8	17	47		33		49	12	59		47	38		11		
27	3	19	10	3	0	≡	15	1	II	55	32	14	0	13	37	45	39		8		
28	4	17	11	16	1	20	15	57	6	31	14	11	14	16	21	44	20	41	23	5	
29	5	15	12	30	2	22	29	52		30		23	14	54		42	43		2		
30	6	13	13	43	3	22	13	5	39	29		34	15	32		41	44	22	58		
31	7	11	14	56	4	19	27	17	6	28	14	45	16	11	21	39	20	46	22	55	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1910

Full Moon August 20th in ♊ 26° 34'

Declination of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1910

New Moon September 3rd in η $10^{\circ} 5'$

Longitude of the Planets

D	☉ ° ♍'	♀ ° ♍'	♂ ° ♍'	♂ ° ♍'	♂ ° ♍'	♂ ° ♍'	♂ ° ♍'	♂ ° ♍'	♂ ° ♍'	♂ ° ♍'	♂ ° ♍'	♂ ° ♍'
1	8 9	16 10	5 13	10 45	6 R26	14 57	16 49	21R38	20 48	22 52		
2	9 7	17 23	6 5	24 1	25	15 9	17 27	37	50	49		
3	10 5	18 37	6 53	7 ♍ 4	23	20 18	6	35	51	46		
4	11 3	19 51	7 38	19 52	22	32 18	44	34	52	43		
5	12 1	21 4	8 19	2 ♍24	20	44 19	23	33	54	40		
6	13 0	22 18	8 57	14 41	18	56 20	1	31	56	36		
7	13 58	23 32	9 30	26 46	6 16	16 8	20 40	21 30	20 57	22 33		
8	14 56	24 45	9 59	8 ♍41	14	20 21	18	29	59	30		
9	15 54	25 59	10 23	20 29	12	31 21	57	28 21	0	27		
10	16 53	27 13	10 42	2 ♄ 17	10	44 22	35	27	1	24		
11	17 51	28 27	10 56	14 8	8	56 23	14	26	3	21		
12	18 50	29 41	11 5	26 8	5 17	8 23	52	25	4	17		
13	19 48	0 ♍55	11 7	8 ♍22	3	20 24	31	24	6	14		
14	20 46	2 9	11R 3	20 56	6 0	17 32	25 10	21 23	21 7	22 11		
15	21 45	3 23	10 52	3 ♍53	5 58	44 25	48	23	8	8		
16	22 43	4 37	10 34	17 15	55	57 26	27	22	9	4		
17	23 42	5 51	10 10	1 ♄ 3	52 18	9 27	6	21	11	1		
18	24 40	7 5	9 38	15 13	49	22 27	44	20	12	21 58		
19	25 39	8 19	9 0	29 42	46	34 28	23	20	13	55		
20	26 38	9 33	8 15	14 ♄ 22	43	46 29	2	19	14	52		
21	27 36	10 48	7 24	29 5	5 40	18 59	29 41	21 19	21 15	21 49		
22	28 35	12 2	6 28	13 ♄ 46	37 19	12 0	♍20	18	16	45		
23	29 34	13 16	5 27	28 19	33	24 0	59	18	17	42		
24	0 ♍33	14 31	4 23	12 ♀39	30	37 1	37	17	18	39		
25	1 31	15 45	3 17	26 44	26	49 2	16	17	19	36		
26	2 30	16 59	2 10	10 ♍35	23 20	2 2	55	17	20	33		
27	3 29	18 14	1 5	24 10	19	15 3	34	17	21	30		
28	4 28	19 28	0 3	7 ♍31	5 15	20 28	4 13	21 16	21 22	21 27		
29	5 27	20 43	29 ♍6	20 38	11	40 4	52	16	23	23		
30	6 26	21 58	28 15	3 ♍33	5 8	20 53	5 31	21 16	21 24	21 20		

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1910

Full Moon September 19th in $\times$ $25^{\circ} 39'$

Declination of the Planets

D	S	T	☉ N	♀ N	♂ S	♂ N	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N							
1	10	39	8	31	16	43	4	25	22	17	11	11	4	51	6	6	22	13	21	13
2		43	8	9	16	23	4	54	18	15		11		56	5	51		13		13
3		46	7	47	16	3	5	21	13	26		10	5	1		36		14		12
4		50	7	25	15	42	5	47	8	6		10		6		20		14		12
5		54	7	3	15	20	6	11	2	33		9		10		5		14		12
6		58	6	41	14	58	6	33	3	s 0		8		14	4	50		14		12
7	11	2	6	19	14	36	6	54	8	21	11	7	5	19	4	34	22	15	21	11
8		6	5	56	14	13	7	12	13	21		6		24		19		15		11
9		10	5	33	13	50	7	27	17	48		5		28		3		15		11
10		14	5	11	13	26	7	41	21	35		4		33	3	48		15		11
11		18	4	48	13	2	7	51	24	28		3		38		32		15		11
12		22	4	25	12	38	7	59	26	19		2		43		16		15		11
13		26	4	2	12	14	8	3	26	55		1		47		1		15		10
14	11	30	3	39	11	49	8	4	26	10	11	0	5	52	2	45	22	15	21	10
15		34	3	16	11	23	8	2	24	1	10	59		57		29		16		10
16		38	2	53	10	58	7	55	20	30		58	6	1		14		16		10
17		42	2	30	10	32	7	45	15	47		57		6	1	58		16		9
18		46	2	7	10	5	7	31	10	6		56		11		42		16		9
19		50	1	44	9	39	7	12	3	45		55		16		26		16		9
20		53	1	20	9	12	6	49	2	N 53		54		21		11		16		9
21	11	57	0	57	8	45	6	21	9	25	10	52	6	26	0	55	22	16	21	9
22	12	1	0	34	8	17	5	50	15	25		51		30		39		16		9
23		5	0	10	7	50	5	15	20	29		50		35		23		16		8
24		9	0	s 13	7	22	4	38	24	16		49		40		7		16		8
25		13	0	37	6	54	3	57	26	28		47		45	s 8		16		8	8
26		17	1	0	6	26	3	16	26	59		46		50		24		16		8
27		21	1	23	5	57	2	33	25	50		44		55		40		16		8
28	12	25	1	47	5	29	1	51	23	15	10	43	6	59	0	56	22	16	21	8
29		29	2	10	5	0	1	10	19	29		42	7	4	1	12		16		7
30	12	33	2	34	4	31	0	31	14	52	10	40	7	9	1	28	22	16	21	7

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1910

New Moon October 3rd in $\approx 9^{\circ} 23'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	17 25	23 12	27 _R 31	16 14	5 8 4	21 6 6	11 21 16	21 25	21 17		
2	8 24	24 27	26 57	28 43	0	19 6 50	16	26	14		
3	9 23	25 42	26 32	11 $\approx$ 1	4 56	32 7 29	16	26	11		
4	10 22	26 56	26 17	23 8	51	45 8 8	16	27	7		
5	11 21	28 11	26 13	5 η 5	47	58 8 47	17	28	4		
6	12 21	29 26	26 _D 22	16 56	43	22 10 9 27	17	28	1		
7	13 20	0 $\approx$ 41	26 37	28 43	4 39	22 23 10 6	21 17	21 29	20 58		
8	14 19	1 56	27 4	10 γ 29	34	36 10 45	17	30	55		
9	15 18	3 10	27 40	22 19	30	49 11 24	18	30	52		
10	16 18	4 25	28 25	4 ν 18	26	23 2 12 4	18	31	48		
11	17 17	5 40	29 19	16 30	21	15 12 43	19	31	45		
12	18 16	6 55	0 $\approx$ 20	29 1	17	28 13 23	19	32	42		
13	19 16	8 10	1 27	11 $\approx$ 55	12	41 14 2	20	32	39		
14	20 15	9 25	2 40	25 14	4 8	23 54 14 41	21 21	21 33	20 36		
15	21 15	10 40	3 59	9 κ 2	3	24 7 15 21	21	33	33		
16	22 14	11 55	5 22	23 17	3 58	21 16 0	22	33	29		
17	23 14	13 10	6 48	7 γ 55	54	34 16 40	23	34	26		
18	24 13	14 25	8 17	22 50	49	47 17 20	24	34	23		
19	25 13	15 40	9 49	7 δ 53	44	25 0 17 59	24	34	20		
20	26 13	16 55	11 23	22 57	39	13 18 39	25	34	17		
21	27 12	18 10	12 59	7 Π 52	3 35	25 26 19 19	21 26	21 34	20 13		
22	28 12	19 25	14 36	22 32	30	39 19 58	27	34	10		
23	29 12	20 40	16 15	6 Σ 52	25	52 20 38	29	35	7		
24	0 μ 11	21 55	17 54	20 50	20	26 5 21 18	30	35	4		
25	1 11	23 11	19 34	4 Ω 25	15	18 21 58	31	35	1		
26	2 11	24 26	21 14	17 40	11	31 22 37	32	R35	19 57		
27	3 11	25 41	22 54	0 μ 35	6	44 23 17	33	35	54		
28	4 11	26 56	24 34	13 14	3 1	26 57 23 57	21 35	21 34	19 51		
29	5 11	28 11	26 15	25 39	2 56	27 10 24 37	36	34	43		
30	6 11	29 27	27 55	7 $\approx$ 53	51	23 25 17	38	34	45		
31	7 11	0 μ 42	29 35	19 56	2 46	27 36 25 57	21 39	21 34	19 42		

Calculated for Mean Noon at Greenwich

October, 1910

Full Moon October 18th in ♍ 24° 13'

Declination of the Planets

D	S	T	⊙	S	♀	N	♂	N	♀	N	♂	S	♀	N	♂	S	♀	N		
1	12	37	2	57	4	2	0	5	9	41	10	39	7	14	1	43	22	16	21	7
2		41	3	20	3	33	0	37	4	12		38		19	1	59		16		7
3		45	3	43	3	3	1	5	1	s23		36		24	2	15		16		7
4		49	4	7	2	34	1	28	6	51		35		29		31		16		7
5		53	4	30	2	4	1	46	12	0		33		34		47		16		6
6		57	4	53	1	35	1	58	16	40		31		39	3	3		16		6
7	13	1	5	16	1	5	2	5	20	42	10	30	7	43	3	18	22	16	21	6
8		4	5	39	0	35	2	7	23	53		29		48		34		16		6
9		8	6	2	0	5	2	4	26	3		27		53		50		16		6
10		12	6	25	0	s25	1	55	27	4		26		58	4	6		16		6
11		16	6	48	0	54	1	42	26	47		24	8	3		21		16		6
12		20	7	10	1	24	1	25	25	9		22		7		37		16		6
13		24	7	33	1	54	1	4	22	12		21		12		53		16		6
14	13	28	7	55	2	24	0	40	18	1	10	19	8	17	5	8	22	16	21	6
15		32	8	18	2	54	0	12	12	45		17		22		24		15		6
16		36	8	40	3	24	0	s	18	6	40	16		27		40		15		6
17		40	9	2	3	53	0	51	0	3		14		32		55		15		5
18		44	9	24	4	23	1	25	6	N42		12		36	6	11		15		5
19		48	9	46	4	53	2	2	13	10		11		41		26		15		5
20		52	10	8	5	22	2	39	18	51		10		46		42		15		5
21	13	56	10	29	5	52	3	18	23	17	10	8	8	51	6	57	22	14	21	5
22	14	0	10	51	6	21	3	58	26	8		6		55	7	13		14		5
23		4	11	12	6	50	4	39	27	10		4	9	0		28		14		5
24		8	11	33	7	19	5	20	26	25		2		5		43		14		5
25		11	11	54	7	48	6	1	24	6		1		10		59		14		5
26		15	12	15	8	17	6	43	20	33		0		15	8	14		14		5
27		19	12	35	8	45	7	25	16	6	9	58		19		29		13		5
28	14	23	12	55	9	14	8	6	11	2	9	56	9	24	8	44	22	13	21	5
29		27	13	16	9	42	8	48	5	38		55		28		59		13		5
30		31	13	35	10	10	9	29	0	5		53		33	9	14		13		5
31	14																			

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1910

Eclipse of Sun November 2nd in $m\ 9^{\circ}\ 11'$

Longitude of the Planets

[illegible]

Calculated for Mean Noon at Greenwich

November, 1910

Eclipse of Moon November 17th in γ $24^{\circ} 16'$

Declination of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1910.

New Moon December 1st in $\uparrow 8^{\circ} 25'$

New Moon December 31st in $\text{vs } 8^{\circ} 57'$

Longitude of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1910

Full Moon December 16th in Π $23^{\circ} 40'$

Declination of the Planets

D	S	T	☉	☿	♀	♂	♂	♂	♂	♂	♂	♂
			S	S	S	S	N	S	S	S	S	N
1	16	37	21 43	21 48	24 52	22 22	9 11	11 52	16 35	22 1	21 8	8
2		41	53	22 1	25 3	25 6	10	56	48	1	8	8
3		45	22 2	14	13	26 44	9 12	0	17 0	0	9	9
4		49	10	26	21	27 8	8	3	11	0	9	9
5		53	18	37	28	26 14	7	7	23	21 59	9	9
6		57	26	48	34	24 4	7	11	35	59	9	9
7	17	1	22 33	22 57	25 38	20 43	9 6	12 15	17 46	21 58	21 9	9
8		5	40	23 7	41	16 21	5	18	58	58	9	9
9		9	46	15	42	11 8	4	22	18 9	57	10	10
10		13	52	23	42	5 16	4	26	20	57	10	10
11		17	58	30	41	1 N 2	3	30	31	56	10	10
12		21	23 3	37	38	7 27	3	34	42	56	10	10
13		25	7	42	33	13 40	2	37	52	55	11	11
14	17	29	23 11	23 47	25 27	19 12	9 2	12 41	19 3	21 55	21 11	11
15		33	15	52	20	23 36	1	44	13	54	11	11
16		37	18	55	11	26 20	1	47	23	54	11	11
17		40	21	58	0	27 8	1	51	33	53	11	11
18		44	23 24	0 24	48	25 57	1	54	43	53	11	11
19		48	25	1	35	23 5	0	57	53	51	12	12
20		52	26	2	21	18 56	0	13 1	20 2	51	12	12
21	17	56	23 27	24 2	24 5	13 57	8 59	13 4	20 12	21 50	21 12	12
22	18	0	27	1 23	48	8 31	59	7	21	50	12	12
23		4	27 23	59	31	2 54	59	10	30	49	13	13
24		8	26	57	12	2 S 42	59	13	39	49	13	13
25		12	25	53 22	53	8 5	59	17	47	48	13	13
26		16	24	49	33	13 8	59	20	56	48	13	13
27		20	22	45	13	17 40	59	23	21 4	47	14	14
28	18	24	23 19	23 39	21 53	21 31	8 59	13 26	21 12	21 47	21 14	14
29		28	16	33	33	24 29	59	29	20	46	14	14
30		32	13	26	13	26 25	59	32	28	45	14	14
31	18	36	23 9	23 19	20 54	27 7	8 59	13 34	21 36	21 44	21 15	15

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	8935	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	.90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5695	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5663	1.1684	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2993	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	85	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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Date	Long.	Dec.	Date	Long.	Dec.
January 2	26° II 36'	16° N 38'	July 1	27° II 40'	17° N 5'
February 1	26° II 6'	16° N 41'	July 31	28° II 19'	17° N 7'
March 3	25° II 51'	16° N 46'	August 30	28° II 47'	17° N 5'
April 2	25° II 56'	16° N 52'	September 29	28° II 57'	17° N 1'
May 2	26° II 20'	16° N 58'	October 29	28° II 47'	16° N 58'
June 1	26° II 58'	17° N 2'	November 23	28° II 21'	16° N 57'
			December 28	27° II 46'	16° N 57'

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1911

New Moon January 30th in ♋ 9° 29'

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	9 58	18 38	26 22	19 9	29 42	9 36	8 23	24 25	20 27	16 25	
2	10 59	19 53	26 15	1 ♋ 32	42	46 9	6	28	26	21	
3	12 0	21 9	25 56	14 6	42	55 9	48	32	24	18	
4	13 1	22 24	25 24	26 52	42	10 4	10 30	35	22	15	
5	14 3	23 39	24 42	9 ♋ 50	42	13 11	12	39	21	12	
6	15 4	24 55	23 48	23 1	43	21 11	55	42	19	9	
7	16 5	26 10	22 45	6 ♋ 26	29 43	10 30	12 37	24 46	20 17	16 6	
8	17 6	27 25	21 35	20 7	44	38 13	19	49	16	2	
9	18 7	28 41	20 18	4 ♋ 6	45	47 14	2	53	14 15	59	
10	19 8	29 56	18 59	18 21	46	55 14	44	57	12	56	
11	20 9	1 ♋ 11	17 39	2 ♋ 53	47 11	3 15	27 25	0	11	53	
12	21 11	2 27	16 21	17 36	48	11 16	9	4	9	59	
13	22 12	3 42	15 7	2 ♋ 27	49	19 16	52	7	7	47	
14	23 13	4 57	14 0	17 16	29 50	11 27	17 34	25 11	20 5	15 43	
15	24 14	6 13	13 0	1 ♋ 56	52	34 18	17	14	4	40	
16	25 15	7 28	12 9	16 18	53	42 19	0	18	2	37	
17	26 16	8 43	11 27	0 ♋ 17	55	49 19	42	21	0	34	
18	27 17	9 58	10 54	13 49	57	56 20	25	25	19 59	30	
19	28 18	11 14	10 31	26 55	59 12	4 21	8	28	57	27	
20	29 19	12 29	10 17	9 ♋ 35	0 8 1	10 21	51	32	55	24	
21	0 ♋ 20	13 44	10 12	21 54	0 3	12 17	22 33	25 35	19 54	15 21	
22	1 21	14 59	10 13	3 ♋ 56	5	24 23	16	39	52	18	
23	2 22	16 14	10 26	15 49	7	30 23	59	43	50	15	
24	3 23	17 30	10 44	27 36	10	37 24	42	46	49	11	
25	4 24	18 45	11 8	9 ♋ 23	12	43 25	25	50	47	8	
26	5 25	20 0	11 38	21 15	15	49 26	8	53	45	5	
27	6 26	21 15	12 14	3 ♋ 16	17	55 26	51	57	44	2	
28	7 27	22 30	12 54	15 29	0 20	13 0	27 34	26 0	19 42	14 59	
29	8 28	23 45	13 40	27 56	23	6 28	17	4	41	56	
30	9 29	25 0	14 28	10 ♋ 36	26	11 29	0	7	39	52	
31	10 30	26 15	15 21	23 31	0 29	13 17	29 43	26 11	19 37	14 49	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1911

Full Moon January 14th in φ 23° 13'

Declination of the Planets

D	S	T	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	S		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
1	18	40	23	5	23	11	20	36	26	30	9	0	13	37	21	43	21	44	21	15
2		44	23	0	23	2		20	24	36		0		40		50		44		15
3		47	22	55	22	52		5	21	28		0		43		57		43		16
4		51	22	49	22	41	19	52	17	17		0		45	22	4		42		16
5		55	22	43	22	30		40	12	15		1		48		11		41		16
6		59	22	36	22	19		31	6	35		1		50		17		41		16
7	19	3	22	29	22	6	19	23	0	31	9	2	13	53	22	23	21	40	21	17
8		7	22	21	21	53		18	5	N 43		2		56		29		40		17
9		11	22	13	21	39		14	11	48		3		58		35		39		17
10		15	22	5	21	25		12	17	24		3	14	0		41		39		17
11		19	21	56	21	10		12	22	5		4		3		46		33		18
12		23	21	47	20	54		13	25	26		5		6		51		37		18
13		27	21	37	20	38		16	27	2		6		8		56		36		18
14	19	31	21	27	20	21	19	20	26	41	9	6	14	10	23	1	21	36	21	18
15		35	21	17	20	3		25	24	29		7		12		6		35		19
16		39	21	6	19	45		31	20	46		8		14		10		35		19
17		43	20	54	19	27		37	15	57		9		16		14		34		19
18		47	20	43	19	7		45	10	30		10		18		18		33		19
19		51	20	31	18	48		53	4	45		11		20		22		32		20
20		54	20	18	18	27	20	1	1	s 2		11		22		25		32		20
21	19	58	20	5	18	7	20	10	6	37	9	12	14	24	23	29	21	31	21	20
22	20	2	19	52	17	45		18	11	50		13		26		32		31		20
23		6	19	38	17	23		27	16	34		15		28		34		30		21
24		10	19	24	17	1		36	20	37		16		30		37		30		21
25		14	19	10	16	38		44	23	51		17		31		39		29		21
26		18	18	55	16	15		52	26	4		18		32		41		28		21
27		22	18	40	15	51		59	27	7		19		35		43		27		22
28	20	26	18	25	15	27	21	6	26	52	9	20	14	36	23	45	21	27	21	22
29		30	18	9	15	3		12	25	16		22		38		46		26		22
30		34	17	53	14	38		18	22	23		23		40		48		26		22
31	20	38	17	37	14	12	21	23	18	21	9	24	14	41	23	49	21	25	21	22

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1911

No New Moon in February

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	11 31	27 31	16 17	6 38	0 33	13 22	0 27	26 14	19 36	14 46		
2	12 32	28 46	17 16	19 56	36	27 1	10	17	34	43		
3	13 33	0 1	18 18	3 24	39	31 1	53	21	33	40		
4	14 34	1 16	19 22	17 2	43	36 2	36	24	31	37		
5	15 35	2 31	20 28	0 8 48	46	40 3	20	28	30	34		
6	16 35	3 45	21 37	14 44	50	45 4	3	31	28	30		
7	17 36	5 0	22 48	28 48	0 54	13 49	4 46	26 34	19 27	14 27		
8	18 37	6 15	24 1	13 0	58	53 5	30	38	25	24		
9	19 38	7 30	25 15	27 20	1 2	56 6	13	41	24	21		
10	20 38	8 45	26 31	11 43	6 14	0 6	57	44	23	17		
11	21 39	10 0	27 48	26 5	10	3 7	40	48	21	14		
12	22 40	11 15	29 7	10 22	14	7 8	24	51	20	11		
13	23 40	12 29	0 27	24 25	19	9 9	7	54	19	8		
14	24 41	13 44	1 49	8 12	1 23	14 12	9 51	26 58	19 17	14 5		
15	25 41	14 59	3 11	21 37	28	15 10	34	27 1	16	2		
16	26 42	16 13	4 35	4 39	32	18 11	18	4	15	13 58		
17	27 43	17 28	6 0	17 19	37	20 12	2	7	13	55		
18	28 43	18 43	7 26	29 40	42	22 12	45	10	12	52		
19	29 44	19 57	8 53	11 45	46	24 13	29	13	11	49		
20	0 44	21 12	10 22	23 39	51	26 14	13	17	10	46		
21	1 44	22 26	11 51	5 28	1 56	14 27	14 57	27 20	19 9	13 43		
22	2 45	23 41	13 22	17 17	2 1	29 15	41	23	7	39		
23	3 45	24 55	14 53	29 11	7	30 16	24	26	6	36		
24	4 46	26 10	16 25	11 16	12	31 17	8	29	5	33		
25	5 46	27 24	17 58	23 35	17	32 17	52	32	4	30		
26	6 46	28 39	19 33	6 11	22	32 18	36	35	3	27		
27	7 47	29 53	21 9	19 6	28	33 19	20	37	2	24		
28	8 47	1 7	22 45	2 19	2 33	14 33	20 4	27 40	19 1	13 20		

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1911

Full Moon February 13th in Ω $23^{\circ} 40'$

Declination of the Planets

D	S T		☉ S		♀ S		♂ S		♂ S		♂ S		♂ S		♂ S		♂ S			
1	20	42	17	20	13	46	21	26	13	24	9	26	14	42	23	49	21	24	21	23
2		46	17	3	13	20		29	7	45		27		43		50		24		23
3		50	16	46	12	54		31	1	40		29		45		50		23		24
4		54	16	28	12	27		32	4	N33		30		46		50		22		24
5		58	16	10	12	0		32	10	39		32		47		50		21		24
6	21	2	15	52	11	32		31	16	18		33		48		49		21		24
7	21	5	15	34	11	5	21	28	21	8	9	35	14	49	23	49	21	20	21	24
8		9	15	15	10	37		25	24	46		36		50		48		20		24
9		13	14	56	10	8		20	26	52		38		51		47		19		25
10		17	14	37	9	40		14	27	9		40		52		45		19		25
11		21	14	18	9	11		7	25	37		41		53		44		18		25
12		25	13	58	8	42	20	59	22	28		43		53		42		17		25
13		29	13	38	8	12		49	18	1		45		54		40		16		25
14	21	33	13	18	7	43	20	39	12	43	9	46	14	54	23	37	21	16	21	23
15		37	12	58	7	13		27	6	57		48		55		35		15		23
16		41	12	37	6	43		13	1	2		50		55		32		15		23
17		45	12	16	6	13	19	59	4	s47		52		56		29		14		27
18		49	11	55	5	43		43	10	16		54		56		26		14		27
19		53	11	34	5	12		26	15	16		56		57		22		13		27
20		57	11	13	4	42		7	19	37		58		57		19		13		27
21	22	1	10	52	4	11	18	48	23	9	10	0	14	58	23	15	21	12	21	27
22		5	10	30	3	40		26	25	42		2		58		10		12		27
23		9	10	8	3	10		4	27	7		3		58		6		11		23
24		12	9	46	2	39	17	40	27	17		5		58		1		10		23
25		16	9	24	2	8		15	26	6		7		59	22	56		9		23
26		20	9	2	1	36	16	49	23	36		9		59		51		9		23
27		24	8	39	1	5		21	19	52		11		59		46		8		23
28	22	28	8	17	0	34	15	53	15	5	10	14	14	58	22	40	21	8	21	29

SIMPLIFIED SCIENTIFIC

Calculated for Mean Noon at Greenwich

March, 1911

New Moon March 1st in κ $9^{\circ} 47'$

New Moon March 30th in γ $8^{\circ} 40'$

Longitude of the Planets

[illegible]

Calculated for Mean Noon at Greenwich

March, 1911

Full Moon March 14th in $\cap 22^{\circ} 47'$

Declination of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1911

Eclipse of Sun April 28th in $8^{\circ} 7' 4''$

Longitude of the Planets

D	☉ ° γ'	♀ ° δ'	♂ ° γ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂
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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1911

Full Moon April 13th in α 22° 26'

Declination of the Planets

D	S	T	☉ N	♀ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N
1	0	34	4	13	15	10	9	25	13	38	11	28	14	28	17	51	20	54	21	32
2		38	4	36	15	36	10	18	19	11		30		26		38		54		32
3		42	4	59	16	1	11	10	23	36		33		24		26		53		32
4		46	5	22	16	26	12	1	26	30		35		23		14		53		32
5		50	5	45	16	50	12	49	27	38		38		21		1		53		32
6		54	6	8	17	14	13	36	26	57		40		19		16		48		32
7	0	58	6	31	17	38	14	20	24	37	11	43	14	17	16	35	20	52	21	32
8	1	2	6	53	18	1	15	2	20	54		45		15		22		52		32
9		6	7	16	18	23	15	41	16	10		48		13		9		52		32
10		10	7	38	18	45	16	18	10	46		50		11	15	55		52		32
11		14	8	0	19	7	16	52	4	58		53		9		42		51		32
12		18	8	22	19	28	17	24	0	56		56		7		28		51		32
13		22	8	44	19	49	17	52	6	42		58		5		14		51		32
14	1	26	9	6	20	9	18	18	12	8	12	0	14	2	15	0	20	51	21	32
15		30	9	28	20	29	18	41	17	2		3		0	14	46		50		32
16		34	9	49	20	48	19	1	21	12		6	13	58		32		50		32
17		37	10	11	21	7	19	17	24	28		8		56		18		50		31
18		41	10	32	21	25	19	31	26	39		10		54		3		50		31
19		45	10	53	21	42	19	42	27	39		13		51	13	49		50		31
20		49	11	14	21	59	19	50	27	22		15		49		34		50		31
21	1	53	11	34	22	15	19	55	25	47	12	18	13	47	13	19	20	50	21	31
22		57	11	55	22	31	19	57	22	59		20		45		4		50		31
23	2	1	12	15	22	46	19	57	19	2		23		42	12	49		49		31
24		5	12	35	23	1	19	53	14	6		26		40		34		49		31
25		9	12	55	23	15	19	46	8	22		28		38		19		49		31
26		13	13	14	24	28	19	37	2	3		30		35		3		49		31
27		17	13	34	24	41	19	24	4	N33		33		33	11	48		49		31
28	2	21	13	53	24	53	19	10	11	5	12	35	13	30	11	32	20	49	21	31
29		25	14	12	24	4	18	52	17	8		38		28		17		49		31
30	2	29	14	31	24	15	18	33	22	11	12	40	13	26	11	1	20	49	21	30

[illegible]

D	S	T	○		♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1	2	33	14	49	24	25	18	11	25	46	12	43	13	23	10	45	20	49	21	30
2		37	15	7		34	17	48	27	32		45		21		29		49		30
3		41	15	25		43		23	27	22		48		19		14		49		30
4		45	15	43		51	16	57	25	23		50		16	9	57		49		30
5		48	16	1	24	59		29	21	55		52		14		41		49		30
6		52	16	18	25	5		2	17	21		54		12		25		49		30
7	2	56	16	35	25	11	15	34	12	5	12	57	13	9	9	9	20	49	21	30
8	3	0	16	51		17		6	6	23		59		7	8	53		49		30
9		4	17	8		21	14	39	0	33	13	2		5		36		49		29
10		8	17	24		25		13	5	s13		5		2		20		49		29
11		12	17	40		29	13	48	10	42		7		0		3		50		29
12		16	17	55		31		24	15	44		9	12	58	7	47		50		29
13		20	18	10		33		2	20	7		11		56		30		50		29
14	3	24	18	25	25	34	12	42	23	38	13	14	12	54	7	14	20	50	21	29
15		28	18	40		35		24	26	9		16		51	6	57		50		28
16		32	18	54		34		8	27	29		18		49		40		50		28
17		36	19	8		33	11	55	27	33		21		47		24		50		28
18		40	19	22		32		44	26	21		23		45		7		50		28
19		44	19	35		30		35	23	56		25		43	5	50		51		28
20		49	19	48		27		29	20	23		27		41		33		51		28
21	3	52	20	1	25	23	11	26	15	52	13	30	12	39	5	16	20	51	21	27
22		56	20	13		19		24	10	32		32		37	4	59		51		27
23		59	20	25		14		25	4	35		34		35		43		52		27
24	4	3	20	37		8		29	1	N47		36		33		26		52		27
25		7	20	48		2		34	8	17		38		31		9		52		26
26		11	20	59	24	55		42	14	32		40		30	3	52		52		26
27		15	21	9		47		51	20	5		43		28		35		52		26
28	4	19	21	20	24	39	12	3	24	25	13	45	12	26	3	18	20	52	21	26
29		23	21	29		30		16	27	1		47		24		1		53		26
30		27	21	39		21		31	27	36		49		23	2	44		53		26
31	4	31	21	48	24	11	12	48	26	11	13	51	12	21	2	27	20	54	21	25

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1911

New Moon June 26th in ϖ $3^{\circ} 45'$

Longitude of the Planets

D	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
°	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
1	9 52	21 57	15 37	8 58	13 41	6 R 6	28 59	29 R 3	19 47	8 25		
2	10 49	23 4	16 35	23 1	48	1 29	43	1	49	22		
3	11 47	24 11	17 36	6 m 37	55 5	56 0	γ 26	0	51	19		
4	12 44	25 17	18 41	19 47	14 2	51 1	10 28	59	53	15		
5	13 41	26 24	19 49	2 35	9	46 1	53	57	54	12		
6	14 39	27 30	21 0	15 4	16	42 2	37	56	56	9		
7	15 36	28 36	22 14	27 18	14 23	5 37	3 20	28 54	19 58	8 6		
8	16 34	29 42	23 31	9 m 21	30	33 4	4 4	53 20	0 3			
9	17 31	0 47	24 51	21 17	37	29 4	47	51	2 0			
10	18 28	1 53	26 14	3 † 9	44	25 5	31	50	4 7	57		
11	19 26	2 58	27 40	14 59	51	21 6	14	48	6 53			
12	20 23	4 3	29 9	26 49	57	17 6	57	46	8 50			
13	21 20	5 8	0 41	8 41	15 4	14 7	40	44	10 47			
14	22 18	6 13	2 16	20 37	15 11	5 10	8 23	28 43	20 12	7 43		
15	23 15	7 17	3 53	2 39	17	7 9	6	41	14 40			
16	24 12	8 21	5 34	14 49	24	4 9	49	39	16 37			
17	25 9	9 25	7 17	27 10	31	1 10	32	37	18 34			
18	26 7	10 29	9 3	9 45	37 4	59 11	15	35	20 31			
19	27 4	11 32	10 52	22 36	44	56 11	57	33	22 28			
20	28 1	12 35	12 44	5 48	50	54 12	40	32	24 24			
21	28 58	13 38	14 38	19 24	15 56	4 52	13 22	28 30	20 26	7 21		
22	29 56	14 41	16 34	3 24	16 3	50 14	5	28	29 18			
23	0 53	15 43	18 32	17 50	9	48 14	47	26	31 15			
24	1 50	16 46	20 34	2 38	15	46 15	30	23	33 12			
25	2 47	17 47	22 37	17 44	21	45 16	12	21	35 9			
26	3 45	18 49	24 42	2 58	27	44 16	54	19	37 5			
27	4 42	19 50	26 49	18 10	33	43 17	36	17	39 2			
28	5 39	20 51	28 57	3 10	16 39	4 42	18 18	28 15	20 41	6 59		
29	6 36	21 52	1 6	17 48	45	41 19	0	13	44 56			
30	7 34	22 52	3 16	2 0	16 51	4 40	19 41	28 11	20 46	6 53		

Calculated for Mean Noon at Greenwich

June, 1911

Full Moon June 11th in λ $19^{\circ} 26'$

Declination of the Planets

D	S	T	N	♀ N	♂ N	D N	b N	Z S	δ S	H S	ψ N
1	4	35	21 57	24 0	13 6	23 3	13 53	12 19	2 10	20 54	21 25
2		39	22 5	23 49	13 26	18 39	55	18 1	53	54	25
3		43	13	37 13	47 13	24	57	16	36	54	24
4		47	20	24 14	9 7	43	59	15	19	54	24
5		51	27	11 14	33 1	52	14 1	14	3	55	24
6		55	34	22 58	14 57	3 s 56	3	13 0	46	55	24
7	4	59	22 41	22 44	15 23	9 28	14 5	12 11	0 29	20 56	21 23
8	5	3	46	29 15	49 14	35	7	10	12	56	23
9		6	52	14 16	16 19	6	9	9	N 5	56	23
10		10	57	21 58	16 43	22 50	11	8	21	56	23
11		14	23 2	42 17	11 25	35	13	7	38	57	22
12		18	6	25 17	40 27	13	15	6	55	57	22
13		22	10	8 18	9 27	35	17	5 1	11	58	22
14	5	26	23 14	20 50	18 37	26 41	14 19	12 4	1 28	20 58	21 22
15		30	17	32 19	6 24	33	21	3	45	59	21
16		34	20	14 19	35 21	17	22	2 2	1	59	21
17		38	22 19	55 20	3 17	2	24	1	17	59	21
18		42	24	36 20	31 12	0	26	1	34	59	21
19		46	25	16 20	58 6	21	28	0	50	21 0	20
20		50	26	18 56	21 24	0 16	30	0 3	6	0	20
21	5	54	23 27	18 35	21 49	6 N 1	14 31	11 59	3 23	21 1	21 19
22		58	27	15 22	13 12	12	32	59	39	1	19
23	6	2	27	17 53	22 36	17 56	34	58	55	2	19
24		6	26	32 22	56 22	44	36	58 4	11	2	19
25		10	25	10 23	15 26	5	38	58	27	3	18
26		13	24 16	48 23	32 27	34	40	58	43	3	18
27		17	22	25 23	47 26	57	41	58	58	4	18
28	6	21	23 20	16 2	23 59	24 23	14 42	11 58	5 14	21 4	21 18
29		25	17 15	39 24	9 20	16	44	58	30	5	17
30	6	29	23 14	15 16	24 16	15 7	14 45	11 58	5 45	21 5	21 17

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1911

New Moon July 25th in Ω $1^{\circ} 24'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
°	′	°	′	°	′	°	′	°	′	°	′
1	8 31	23 52	5 26	15 42	16 57	4 R40	20 23	28R 8	20 48	6 50	
2	9 28	24 51	7 37	28 56	17 2	40	21 4	6	50	47	
3	10 25	25 50	9 47	11 43	8	D40	21 46	4	52	43	
4	11 22	26 49	11 58	24 10	14	40	22 27	2	54	40	
5	12 20	27 48	14 8	6 20	19	41	23 8	27 59	57	37	
6	13 17	28 46	16 17	18 18	25	41	23 49	57	59	34	
7	14 14	29 43	18 24	0 10	17 30	4 42	24 30	27 55	21 1	6 31	
8	15 11	0 40	20 31	11 59	35	43	25 11	53	3	27	
9	16 8	1 37	22 36	23 48	40	44	25 52	50	6	24	
10	17 6	2 33	24 41	5 41	46	45	26 32	48	8	21	
11	18 3	3 29	26 43	17 39	51	47	27 13	46	10	18	
12	19 0	4 24	28 45	29 43	56	48	27 53	43	12	14	
13	19 57	5 19	0 43	11 55	18 1	50	28 33	41	14	11	
14	20 54	6 13	2 41	24 15	18 6	4 52	29 14	27 38	21 17	6 8	
15	21 52	7 6	4 36	6 46	10	54	29 54	36	19	5	
16	22 49	8 0	6 31	19 28	15	57	0 8 33	34	21	2	
17	23 46	8 52	8 22	2 24	20	59	1 13	31	23 5	59	
18	24 43	9 44	10 13	15 36	24 5	2 1	53	29	26	55	
19	25 41	10 35	12 1	29 7	29	5 2	32	26	28	52	
20	26 38	11 26	13 48	12 58	33	8 3	11	24	30	49	
21	27 35	12 15	15 33	27 11	18 37	5 11	3 50	27 22	21 32	5 46	
22	28 32	13 5	17 16	11 44	42	14 4	29	19	34	43	
23	29 30	13 53	18 56	26 34	46	18 5	8	17	37	40	
24	0 27	14 41	20 36	11 35	50	21 5	47	14	39	36	
25	1 24	15 27	22 15	26 38	54	25 6	25	12	41	33	
26	2 22	16 14	23 50	11 32	58	29 7	4	10	43	30	
27	3 19	16 59	25 23	26 9	19 2	33 7	42	7	46	27	
28	4 16	17 44	26 56	10 22	19 5	5 38	8 20	27 5	21 48	5 24	
29	5 14	18 27	28 26	24 7	9	42 8	57	2	50	21	
30	6 11	19 10	29 54	7 24	12	47 9	35	0	52	17	
31	7 9	19 51	1 21	20 14	19 16	5 52	10 12	26 58	21 54	5 14	

Calculated for Mean Noon at Greenwich

July, 1911

Full Moon July 11th in $\text{w} 18^{\circ} 3'$

Declination of the Planets

D	S	T	⊙ N	♀ N	♂ N	☽ N	♄ N	♅ S	♆ N	♁ S	♃ N
1	6	33	23 11	14 52	24 21	9 21	14 47	11 58	6 1	21 6	21 17
2		37		7 14	29 24	22 3	23 48		58 16		6 17
3		41		3 14	5 24	21 2	s34 50		58 31		6 16
4		45	22 58	13 40	24 17	8 15	51 51		58 46		6 16
5		49		53 13	16 24	11 13	30 53		59 7		1 7
6		53		47 12	51 24	1 18	10 54		59 16		7 15
7	6	57	22 41	12 26	23 49	22 5	14 55	12 0	7 31	21 8	21 14
8	7	1		35 12	2 23	34 25	3 56		0 46		8 14
9		5		29 11	36 23	17 26	56 58		1 8		1 14
10		9		21 11	11 22	58 27	36 59		2 15		9 14
11		13		14 10	46 22	37 26	59 15		1 3		29 13
12		17		6 10	21 22	13 25	5 2		3 44		10 13
13		21	21 58	9 55	21 48	22 1	3 3		4 58		11 12
14	7	24	21 49	9 30	21 21	17 57	15 4	12 5	9 12	21 11	21 12
15		28		41 9	4 20	53 13	4 5		6 26		12 12
16		32		31 8	38 20	23 7	34 6		7 40		12 12
17		36		22 8	13 19	52 1	38 7		8 54		13 11
18		40		12 7	47 19	19 4	N29 8		9 10		7 13
19		44		1 7	21 18	46 10	34 10		11 21		14 10
20		48	20 50	6 55	18 12	16 17	11 11		12 34		14 10
21	7	52	20 39	6 30	17 36	21 17	15 12	12 13	10 47	21 15	21 10
22		56		28 6	4 17	1 25	6 13		14 11		1 15
23	8	0		16 5	38 16	24 27	16 14		16 14		16 9
24		4		4 5	13 15	47 27	29 14		18 26		16 9
25		8	19 51	4 48	15 10	25 41	15 15		19 39		17 8
26		12		39 4	22 14	32 22	7 16		21 52		17 8
27		16		25 3	57 13	53 17	13 17		22 12		4 8
28	8	20	19 12	3 32	13 15	11 30	15 18	12 23	12 17	21 18	21 8
29		24	18 58	3 7	12 37	5 23	19 19		25 29		19 7
30		28		44 2	42 11	58 0	s46 19		27 41		19 7
31	8	31	18 30	2 18	11 19	6 42	15 20	12 29	12 53	21 20	21 6

SIMPLIFIED SCIENTIFIC

EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1911

New Moon August 24th in $\text{m}\gamma$ $0^\circ 11'$

Longitude of the Planets

D	☉ ° Ω'	☿ ° mγ'	♀ ° mγ'	♂ ° m'	♂ ° δ'	♂ ° m'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'	♂ ° δ'
1	8 6	20 32	2 46	2 42	19 19	5 57	10 50	26R55	21 56	5 11	
2	9 3	21 11	4 8	14 53	22 6	0 11	27 53		59		8
3	10 1	21 49	5 29	26 51	26 7	12 3	51 22		1		5
4	10 58	22 27	6 48	8 43	28 13	12 40	48 3				1
5	11 56	23 3 8	5 20	32 32	32 18	13 16	46 5 4				58
6	12 53	23 37 9	20 2	13 24	34 24	13 53	44 7				55
7	13 51	24 11	10 33	14 21	19 37	6 30	14 29	26 42	22 9	4 52	
8	14 48	24 43	11 43	26 26	39 36	15 4	39 11				49
9	15 46	25 13	12 51	8 40	43 42	15 40	37 13				46
10	16 43	25 42	13 57	21 5	45 48	16 15	35 15				42
11	17 41	26 10	15 0	3 41	47 55	16 50	33 17				39
12	18 38	26 36	16 1	16 28	50 7	1 25	31 20				36
13	19 36	27 1	16 59	29 26	52 8	18 0	28 22				33
14	20 33	27 24	17 54	12 36	19 54	7 15	18 34	26 26	22 24	4 30	
15	21 31	27 45	18 46	25 57	56 22	19 8	24 26				27
16	22 29	28 4	19 35	9 32	58 29	19 42	22 28				23
17	23 26	28 22	20 21	23 21	20 0	36 20	16 20				20
18	24 24	28 37	21 3	7 25	1 44	20 49	18 31				17
19	25 22	28 51	21 42	21 44	3 51	21 22	16 33				14
20	26 20	29 3	22 17	6 15	4 59	21 55	14 35				11
21	27 17	29 12	22 47	20 53	20 6	8 7	22 28	26 12	22 37	4 8	
22	28 15	29 20	23 13	5 34	7 15	23 0	10 39				4
23	29 13	29 25	23 35	20 8	8 23	23 32	8 41				1
24	0m11	29 28	23 52	4 m30	9 31	24 3	6 43	3			58
25	1 9	29R29	24 3	18 32	10 39	24 35	5 45				55
26	2 7	29 27	24 9	2 12	11 47	25 6	3 47				52
27	3 5	29 23	24R10	15 26	12 56	25 36	1 48				49
28	4 3	29 17	24 5	28 17	20 12	9 5	26 7	25 59	22 50	3 45	
29	5 1	29 8	23 53	10 m46	13 13	26 37	58 52				42
30	5 59	28 57	23 36	22 58	13 22	27 6	56 54				39
31	6 57	28 44	23 12	4 58	20 14	9 31	27 36	25 54	22 55	3 36	

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1911

Full Moon August 10th in $\approx 16^{\circ} 43'$

Declination of the Planets

D	ST	☉ N	♀ N	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S
1	8 35	18 15	1 53	10 41	12 13	15 21	12 31	13 4	21 20	21 6	6
2	39	0	29	10 2	17 7	21	33	16	20	21 6	6
3	43	17 45	6 9	24 21	17	22	35	27	21	5	5
4	47	29 0	42 8	46 24	31	22	37	39	21	5	5
5	51	13	19 8	9 26	42	23	39	50	22	5	5
6	55	16 57	s 4 7	32 27	40	24	41	14 1	22	5	5
7	8 59	16 41	0 27	6 55	27 21	15 25	12 43	14 12	21 23	21 4	4
8	9 3	24	49 6	19 25	44	25	45	23	23	4	4
9	7	7 1	10 5	43 22	55	26	48	33	24	3	3
10	11 15	50	32 5	8 19	1	26	50	44	24	3	3
11	15	32	53 4	34 14	13	26	52	54	25	3	3
12	19	15 2	13 4	0 8	45	26	54	15 4	25	3	3
13	23	14 57	33 3	28 2	50	27	57	14	25	2	2
14	9 27	14 39	2 52	2 57	3 N 18	15 27	12 59	15 24	21 25	21 2	2
15	31	20 3	11 2	26 9	24	28 13	2	34	26	1	1
16	35	2	29 1	57 15	10	28	5	43	28	1	1
17	38	13 43	46 1	29 20	17	28	7	53	27	1	1
18	42	24 4	3 1	3 24	21	28	9 16	2	27	1	1
19	46	4	19 0	38 26	58	29	12	11	28	0	0
20	50	12 45	34 0	15 27	48	29	15	20	28	0	0
21	9 54	12 25	4 49	0 s 6	26 42	15 29	13 18	16 29	21 28	20 59	59
22	58	5 5	2 0	26 23	47	29	20	38	28	59	59
23	10 2	11 45	15 0	43 19	21	29	23	46	29	59	59
24	6	25	27 0	58 13	53	29	26	55	29	59	59
25	10	4	37 1	10 7	47	29	29	17 3	80	58	58
26	14	10 44	47 1	20 1	30	29	32	11	80	58	58
27	18	23	56 1	26 4	s 42	29	35	19	81	58	58
28	10 22	10 2	6 3	1 30	10 31	15 29	13 38	17 27	21 31	20 58	58
29	26	9 41	9 1	31 15	46	29	41	34	31	57	57
30	30	19	14 1	28 20	15	29	44	42	31	57	57
31	10 34	8 58	6 18	1 21	23 50	15 29	13 47	17 49	21 32	20 56	56

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1911

New Moon September 22nd in ♍ 28° 21'

Longitude of the Planets

♂	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
°	♈'	°	♈'	°	♈'	°	♈'	°	♈'	°	♈'
1	7 55	28 _R 28	22 _R 43	16 51	20 14	9 40	28 4	25 _R 53	22 57	3 33	
2	8 53	28 10	22 7	28 42		14 49	28 33	51	59	29	
3	9 51	27 49	21 26	10 _V 36	_R 14	59 29	1	50	23 0	26	
4	10 49	27 27	20 39	22 37	14 10	8 29	29	48	2	23	
5	11 47	27 2	19 48	4 $\approx$ 48	14	18 29	57	47	4	20	
6	12 46	26 35	18 53	17 12	13	27 0	23	45	5	17	
7	13 44	26 6	17 56	29 51	20 13	10 37	0 50	25 44	23 7	3 14	
8	14 42	25 36	16 56	12 $\times$ 44	12	47 1	16	43	8	10	
9	15 40	25 4	15 56	25 51	12	57 1	42	41	10	7	
10	16 39	24 31	14 57	9 γ 11	11 11	7 2	7	40	11	4	
11	17 37	23 56	14 0	22 42	10	17 2	32	39	13	1	
12	18 35	23 21	13 6	6 $\times$ 24	9	27 2	57	38	14 2	57	
13	19 34	22 45	12 18	20 15	8	37 3	21	37	16	54	
14	20 32	22 8	11 36	4 Π 13	20 7	11 48	3 44	25 36	23 17	2 51	
15	21 31	21 31	11 1	18 19		5 58	4 7	35	18	48	
16	22 29	20 54	10 33	2 Σ 30	4 12	9 4	30	34	20	45	
17	23 28	20 17	10 15	16 45	2	19 4	52	33	21	42	
18	24 26	19 40	10 6	1 Ω 1	1	30 5	14	32	22	38	
19	25 25	19 5	10 _D 7	15 15	19 59	41 5	35	31	24	35	
20	26 23	18 30	10 17	29 22		57 52	5 55	30	25	32	
21	27 22	17 57	10 37	13 _m 18	19 55	13 3	6 15	25 29	23 26	2 29	
22	28 21	17 24	11 7	26 59		53 14	6 34	29	27	26	
23	29 20	16 53	11 45	10 $\approx$ 22		51 25	6 53	28	28	23	
24	0 $\approx$ 18	16 24	12 32	23 26		49 36	7 11	28	29	19	
25	1 17	15 57	13 28	6 m 11		47 47	7 28	27	30	16	
26	2 16	15 31	14 30	18 38		44 58	7 46	26	31	13	
27	3 15	15 8	15 39	0 $\dagger$ 50		42 14	10 8	26	32	10	
28	4 14	14 47	16 55	12 51	19 39	14 21	8 18	25 26	23 33	2 7	
29	5 13	14 29	18 16	24 44		37 33	8 33	25	34	4	
30	6 12	14 12	19 42	6 v 36	19 34	14 45	8 47	25 25	23 35	2 0	

Calculated for Mean Noon at Greenwich

September, 1911

Full Moon September 8th in $\times 14^{\circ} 42'$

Declination of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC

EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1911

Eclipse of Sun October 22nd in $\approx 27^{\circ} 58'$

Longitude of the Planets

♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	
♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	
1	7	11	13R57	21	11	18	30	19R31	14	56	9	0	25R25	23	36	1	57			
2	8	10	13	46	22	45	0	32	28	15	8	13	25	37			54			
3	9	9	13	36	24	21	12	46	25		20	25	24	38			51			
4	10	8	13	29	26	0	25	15	22		32	37	24	39			48			
5	11	7	13	25	27	40	8	2	19		44	48	24	40			45			
6	12	6	13	23	29	22	21	8	15		56	58	d24	40			41			
7	13	5	13d23	1	≈	6	4	γ33	19	12	16	8	10	8	25	24	23	41	1	38
8	14	5	13	26	2	50	18	16		8		20	16	24			42		35	
9	15	4	13	31	4	34	2	8	13		5	32	24	25			42		32	
10	16	3	13	38	6	20	16	22		1		44	31	25			43		29	
11	17	2	13	48	8	5	0	Π39	18	58		56	37	25			43		26	
12	18	2	14	9	9	51	14	58		54	17	9	43	25			44		22	
13	19	1	14	14	11	36	29	17		50		21	47	26			45		19	
14	20	1	14	30	13	21	13	Σ33	18	46	17	34	10	51	25	26	23	45	1	16
15	21	0	14	48	15	5	27	43		42		46	54	27			45		13	
16	22	0	15	8	16	49	11	Ω44	38		59	56	56	27			46		9	
17	22	59	15	30	18	32	25	36	34	18	11		57	28			46		6	
18	23	59	15	53	20	16	9	η17	30		24	58	28				47		3	
19	24	58	16	19	21	58	22	45	26		36	R57	29				47		0	
20	25	58	16	46	23	41	6	≈	0	21		49	56	30			47	0	57	
21	26	58	17	15	25	22	19	1	18	17	19	2	10	53	25	30	23	47	0	54
22	27	58	17	45	27	3	1	μ48		13		15	50	31			48		50	
23	28	57	18	17	28	43	14	20		8		27	46	32			48		47	
24	29	57	18	50	0	μ23	26	40		4		40	41	33			48		44	
25	0	μ57	19	25	2	2	8	↑48	17	59		53	35	34			48		41	
26	1	57	20	1	3	41	20	47		55	20	6	28	35			48		38	
27	2	57	20	38	5	19	2	ν40		50		19	20	36			48		35	
28	3	57	21	17	6	57	14	31	17	45	20	32	10	12	25	37	23R48	0	31	
29	4	57	21	57	8	34	26	24		41		45		2			38		28	
30	5	57	22	38	10	11	8	≈24		36		58	9	52			40		25	
31	6	57	23	20	11	46	20	35	17	31	21	11	9	41	25	41	23	48	0	22

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1911

Full Moon October 8th in γ $14^{\circ} 5'$

Declination of the Planets

D	ST	☉ S	♀ N	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	12 36 2	51 0	7 5	7 27 14	15 12 15	31 20 36	21 37 20	49				
2	40 3 15	23 4	34 25 10	11 35 40	37 49							
3	44 3 38	37 3	58 21 54	10 38 43	37 49							
4	48 4 1	51 3	21 17 37	9 41 47	37 49							
5	52 4 24	1 5 2	41 12 27	8 45 50	37 49							
6	56 4 47	17 2	1 6 37	7 49 54	37 49							
7	13 0 5	10 1	29 1 19	0 20 15	6 15 52	20 57 21	37 20 49					
8	4 5 33	40 0	36 6 N 6	5 56 21	0 37 49							
9	7 5 56	50 0	5 7 12 22	4 59 3	37 48							
10	11 6 19	59 0	51 18 5	3 16 3	37 48							
11	15 6 42	2 7 1	35 22 51	2 6 9	36 48							
12	19 7 5	14 2	20 26 15	1 10 12	36 48							
13	23 7 27	20 3	5 27 57	14 59 14	15 36 48							
14	13 27 7	50 2	25 3 50	27 46 14	58 16 18	21 18 21	36 20 48					
15	31 8 12	30 4	35 25 47	57 21 21	36 48							
16	35 8 34	33 5	19 22 15	56 24 23	36 48							
17	39 8 57	36 6	4 17 30	55 28 26	36 48							
18	43 9 19	38 6	48 11 56	54 31 28	36 48							
19	47 9 41	38 7	32 5 53	52 35 30	36 47							
20	51 10 2	38 8	15 0 S 20	51 38 33	36 47							
21	13 55 10	24 2	38 8 58	6 26 14	50 16 42	21 35 21	35 20 47					
22	59 10 45	36 9	41 12 11	49 45 37	35 47							
23	14 3 11	7 34 10	22 17 19	47 49 39	35 47							
24	7 11 28	30 11	4 21 39	46 53 41	35 47							
25	11 11 49	26 11	44 24 59	45 57 43	34 47							
26	14 12 10	22 12	24 27 10	44 17 0	34 47							
27	18 12 30	16 13	4 28 5	42 4 46	34 47							
28	14 22 12	51 2	10 13 42	27 42 14	40 17 7	21 48 21	34 20 47					
29	26 13 11	3 14	20 26 3	39 11 49	34 47							
30	30 13 31	1 56 14	57 23 14	38 14 51	34 47							
31	14 34 13	51 1	47 15 33	19 21 14	37 17 18	21 52 21	33 20 47					

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1911

New Moon November 20th in η $27^{\circ} 3'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° m'	° m'	° m'	° m'	° m'	° m'	° m'	° m'	° m'	° m'	° m'
1	7 57	24 3	13 22	3 2	17R26	21 24	9 R29	25 42	23R48	0	19
2	8 57	24 47	14 57	15 49	22	37 9	16	44	48		15
3	9 57	25 33	16 32	28 59	17	50 9	2	45	47		12
4	10 57	26 19	18 6	12 ♀ 33	12 22	3 8	48	46	47		9
5	11 57	27 6	19 40	26 31	7	17 8	33	48	47		6
6	12 57	27 54	21 14	10 8 50	2	30 8	17	49	47		3
7	13 57	28 43	22 47	25 25	16 57	22 43	8	0 25	51 23	46 0	0
8	14 58	29 33	24 19	10 II 10	5	56 7	43	53	46 29	56	
9	15 58	0 = 24	25 52	24 58	48 23	10 7	25	54	45 ♀ 53		
10	16 58	1 15	27 24	9 54 1	43	23 7	6	56	45	50	
11	17 58	2 7	28 56	24 14	38	36 6	47	58	45	47	
12	18 59	3 0	0 † 28	8 31	33	49 6	27 26	0	44	44	
13	19 59	3 54	1 59	22 30	28 24	3 6	7	2	43	41	
14	21 0 4	48 3	29 6	12 11	16 28	24 16	5	46 26	4 23	43 29	37
15	22 0 5	43 5	0 19	34	19	29 5	25	6	42	34	
16	23 1 6	39 6	30 2	41	14	43 5	4	8	42	31	
17	24 1 7	35 8	0 15	32	9	56 4	42	10	41	28	
18	25 2 8	32 9	29 28	11	4 25	9 4	20	12	40	25	
19	26 2 9	29 10	58 10	39	15 59	23 3	58	14	40	22	
20	27 3 10	27 12	27 22	57	55	36 3	36	16	39	18	
21	28 3 11	25 13	55 5	† 6	15 50	25 49	3	13 26	18 23	38 29	15
22	29 4 12	24 15	23 17	7	45 26	3 2	50	20	37	12	
23	0 † 5	13 23	16 50	29 3	40	16 2	27	23	36	9	
24	1 5 14	23 18	17 10	55	36	29 2	5	25	36	6	
25	2 6 15	23 19	43 22	45	31	43 1	42	27	35	3	
26	3 7 16	24 21	8 4	37	27	56 1	20	30	34 28	59	
27	4 8 17	25 22	33 16	35	22 27	9 0	58	32	33	56	
28	5 8 18	27 23	56 28	42	15 18	27 23	0	36 26	35 23	32 28	53
29	6 9 19	29 25	18 11	4	13	36 0	14	37	31	50	
30	7 10 20	31 26	39 23	45	15 9	27 49	0	0 26	40 23	30 28	57

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1911

Full Moon November 6th in γ $12^{\circ} 57'$

Declination of the Planets

D	S	T	☉ S	♀ N	♂ S	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	14	38	14 10	1 39	16 9	14 34	14 35	17 21	21 53	21 33	20 47
2		42	29	29	16 44	9 3	34	25	54	33	47
3		46	48	19	17 18	2 58	33	28	55	32	47
4		50	15 7	8 17	51 3	N 25	32	31	56	32	47
5		54	26 0	57 18	23 9	51	30	35	56	32	47
6		58	44	45 18	54 15	56	29	38	57	32	47
7	15	2	16 2 0	33 19	24 21	15 14	27 17	42 21	57 21	31 20	47
8		6	20	20 19	53 25	17	26	45	58	31	47
9		10	38	6 20	22 27	37	25	49	58	30	47
10		14	55	s 8 20	49 27	59	23	51	58	30	47
11		18	17 12	22 21	15 26	25	22	56	58	30	48
12		22	29	37 21	41 23	10	20	59	57	30	48
13		25	45	53 22	5 18	38	19 18	2 57	29	48	
14	15	29	18 1 1	8 22	28 13	14 14	14 18	18 6	21 57	21 29	20 48
15		33	17	25 22	50 7	20	17	9	56	28	48
16		37	32	41 23	11 1	13	16	12	55	28	48
17		41	47	58 23	31 4	s 50	14	15	54	27	48
18		45	19 2 2	15 23	49 10	36	13	18	53	27	48
19		49	17	33 24	6 15	52	12	22	52	27	48
20		53	31	51 24	22 20	25	10	25	51	27	48
21	15	57	19 44 3	9 24	37 24	3 14	9 18	28 21	49 21	26 20	49
22	16	1	58	28 24	51 26	35	8	31	48	26	49
23		5	20 11	47 25	3 27	53	7	35	46	25	49
24		9	23 4	6 25	14 27	53	6	38	44	25	49
25		13	36	25 25	24 26	36	4	41	42	24	49
26		17	48	45 25	32 24	8	3	44	41	24	49
27		21	59 5	5 25	39 20	38	2	47	39	23	49
28	16	25	21 10 5	25 25	44 16	13 14	1 18	50 21	37 21	33 20	49
29		29	21	45 25	48 11	4	0	53	35	22	50
30	16	32	21 31 6	5 25	50 5	20 13	59 18	56 21	33 21	21 20	50

D	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′				
1	8	11	21	34	27	59	6	48	15R	5	28	2	29R	32	26	43	23R	29	28	43		
2	9	12	22	37	29	17	20	19		1				12		45		28		40		
3	10	12	23	40	0W	33	4	8	17	14	56		29	28	52		48		26	37		
4	11	13	24	44	1	46	18	43			52		42		32		51		25	34		
5	12	14	25	48	2	57	3	II	33		43		55		14		53		24	33		
6	13	15	26	52	4		5	18	39		44	29	8	27	56		56		23	27		
7	14	16	27	57	5	10	3	Σ	51	14	40	29	21	27	38	26	59	23	22	28	24	
8	15	17	29		6	10	19	0			37		35		21	27	2		20		21	
9	16	18	0	η	7	7	7	3	Ω	55		33		48		4		5		19	18	
10	17	19	1		13	7	57	18	30		29	0	f	1	26	48		7		18	15	
11	18	20	2	19	8	42	2	η	39		25		14		33		10		17		12	
12	19	21	3	25	9	20	16	22			22		27		19		13		15		8	
13	20	22	4	31	9	51	29	41			18		40		5		16		14		5	
14	21	23	5	38	10	13	12	-	37	14	15	0	53	25	53	27	19	23	13	28	2	
15	22	24	6	45	10	26	25	15			12	1		6		41		22		11	27	59
16	23	25	7	52	10R	29	7	η	39		9		18		30		25		10		50	
17	24	26	8	59	10	20	19	52			5		31		19		28		8		53	
18	25	27	10		6	10	1	1	f	56		2		44		10		32		7		49
19	26	28	11	14	9	29	13	55		13	59		57		1		35		5		46	
20	27	29	12	22	8	47	25	50			57	2	10	24	53		38		4		43	
21	28	31	13	30	7	53	7	W	43	13	54	2	22	24	45	27	41	23	2	27	40	
22	29	32	14	38	6	49	19	34			51		35		39		44		1		37	
23	0W	33	15	47	5	37	1	≈	26		49		47		34		48	22	59		34	
24	1	34	16	56	4	18	13	21			46	3		0	29		51		58		30	
25	2	35	18		5	2	57	25	19		44		12		25		54		56		27	
26	3	36	19	14	1	35	7	×	26		41		25		22		57		55		24	
27	4	38	20	23	0	15	19	45			39		50		20	28	1		53		21	
28	5	39	21	32	29	f	0	2	γ	19	13	37	3	50	24	19	28	4	22	51	27	19
29	6	40	22	42	27	49	15	15			35	4		2		18		7		50		15
30	7	41	23	51	26	48	28	35			33		14		p	18		11		48		11
31	8	42	25	1	25	57	12	8	23	13	32	4	26	24	20	28	14	22	47	27	8	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December 1911

Full Moon December 6th in Π $13^{\circ} 15'$

Declination of the Planets

D	S	T	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	16	36	21 41 6	26 25 52	0 48 13	58 18 59	21 31 21	21 21 20	50				
2		40	51 6 46		51 7 6	56 19 2		28 21	50				
3		44	22 0 7	7 49	13 17 55	5	26 20	51					
4		48	8 7 28	46 18 58	54 8	24 20	51						
5		52	16 7 49	42 23 39	53 11	22 19	51						
6		56	24 8 10	36 26 48	52 14	20 19	51						
7	17	0	22 32 8	31 25 29	28 0 13	51 19 17	21 18 21	18 18 20	51				
8		4	38 8 52	20 27 6	51 20	16 18	51						
9		8	45 9 13	10 24 15	50 23	14 17	52						
10		12	51 9 34	24 59 19	55 49 25	12 16	52						
11		16	56 9 35	47 14 33	48 28	10 15	52						
12		20	23 2 10	16 34 8	38 47 31	9 15	52						
13		24	6 10 37	20 2 30	46 34 7	14 53							
14	17	28	23 10 10	58 24 6	3 s 36 13	46 19 36	21 6 21	14 20	53				
15		32	14 11 19	23 50 9	24 45 39	4 13	53						
16		36	17 11 40	35 14 44	44 42 3	13 53							
17		39	20 12 0	19 19 25	43 44 2	12 54							
18		43	22 12 21	2 23 14	43 46 1	12 54							
19		47	24 12 41	22 46 26	1 42 49	0 11 54							
20		51	26 13 2	29 27 37	42 52 20	59 10 54							
21	17	55	23 27 13	22 12 27	55 13 41	19 55 20	58 21 9	20 55					
22		59	27 13 42	21 56 26	57 41 57	58 9 55							
23	18	3	27 14 2	40 24 46	40 59 57	8 55							
24		7	27 14 21	25 21 30	40 20 2	57 8 55							
25		11	26 14 41	10 17 20	39 4 57	7 56							
26		15	24 15 0	20 56 12	26 39 6	57 6 56							
27		19	22 15 19	44 6 58	38 9 57	5 56							
28	18	23	23 20 15	37 20 34	1 7 13	38 20 12	20 58 21	5 20	56				
29		27	17 15 55	25 4 N 57	37 14 58	4 57							
30		31	14 16 14	18 11 0	37 16 59	4 57							
31	18	35	23 10 16	31 20 14	16 44 13	37 20 18	21 0 21	3 20	51				

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	8935	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	.90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5695	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1179	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	50	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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Date	Long.	Dec.	Date	Long.	Dec.
January 27	27° II 15'R	16° N 59'	July 25	29° II 15'	17° N 23'
February 26	26° II 56'	17° N 4'	August 24	29° II 47'	17° N 22'
March 27	26° II 56'D	17° N 10'	September 23	0° ∞ 01'R	17° N 20'
April 26	27° II 17'	17° N 16'	October 23	29° II 56'	17° N 17'
May 26	27° II 52'	17° N 20'	November 22	29° II 32'	17° N 16'
June 25	28° II 35'	17° N 23'	December 22	28° II 57'	17° N 16'

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JANUARY, 1912

New Moon January 19th in $\text{VS } 28^{\circ} 4'$

Longitude of the Planets

D	☉ °VS'	♀ °m'	♂ °f'	♂ °g'	♂ °g'	♂ °f'	♂ °g'	♂ °VS'	♂ °g'	♂ °g'
1	9 43	26 11	25E16	26 40	13R30	4 38	24 21	28 17	22R45	27 05
2	10 44	27 21	24 45	11II26	28	50	24	21	43	02
3	11 46	28 31	23 26	33	27	5 02	27	24	42	26 59
4	12 47	29 41	13 11	354	25	14	31	28	40	56
5	13 48	0 f 51	D12	27 16	24	26	36	31	38	52
6	14 49	2 02	19	12L28	23	38	42	35	36	49
7	15 50	3 12	24 35	27 20	13 22	5 50	24 48	28 38	22 35	26 46
8	16 51	4 23	58	11m44	21	6 01	54	41	33	43
9	17 52	5 34	25 27	25 39	21	13	25 02	45	31	40
10	18 54	6 45	26 03	9= 3	20	25	10	48	30	36
11	19 55	7 56	44	22 02	19	36	19	52	28	33
12	20 56	9 07	27 30	4m37	19	47	28	55	26	30
13	21 57	10 18	28 20	16 56	19	59	38	59	25	27
14	22 58	11 30	29 14	29 01	13 18	7 10	25 49	29 02	22 23	26 24
15	23 59	12 41	0VS12	10 f 59	18	21	26 00	06	21	21
16	25 00	13 52	1 13	22 51	13D18	32	12	10	20	17
17	26 01	15 04	2 16	4VS42	19	43	25	13	18	14
18	27 03	16 16	3 23	16 34	19	54	38	17	16	11
19	28 04	17 27	4 31	28 27	19	8 05	51	20	14	08
20	29 05	18 39	5 42	10~23	19	15	27 05	24	13	04
21	0~06	19 51	6 54	22 24	13 20	8 26	27 20	29 27	22 11	26 01
22	1 07	21 03	8 09	4X30	21	36	35	31	09	25 58
23	2 08	22 15	9 24	16 44	22	47	51	34	08	55
24	3 09	23 27	10 42	29 07	23	57	28 07	38	06	52
25	4 10	24 39	12 00	11Y44	24	9 07	23	41	04	49
26	5 11	25 51	13 20	24 37	25	18	40	45	03	45
27	6 12	27 04	14 41	7X50	26	28	58	48	01	42
28	7 13	28 16	16 04	21 27	13 27	9 37	29 16	29 52	22 00	25 39
29	8 14	29 28	17 26	5II30	29	47	34	55	21 58	36
30	9 15	0VS40	18 51	19 59	30	57	53	59	56	33
31	10 16	1 53	20 16	4=50	32	10 07	0II12	0~02	55	30

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JANUARY, 1912

Full Moon January 4th in ϖ $12^{\circ} 47'$

Declination of the Planets

D	ST	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ N	♂ S	♂ N
1	18 39	23 06	16 49	20 11	21 46	13 37	20 20	21 01	21 02	20 57
2	43	01 17	06	12 25	35	37	22	02	01	57
3	47	22 56	22	13 27	42	36	25	03	01	58
4	50	50	39	17	43	36	27	04	00	58
5	54	44	55	22 25	38	36	29	06	20 59	59
6	58	38	18 10	28	21 43	36	31	08	59	59
7	19 02	22 31	18 26	20 36	16 29	13 36	20 33	21 10	20 58	20 59
8	06	23	49	45	10 28	36	35	11	57	59
9	10	15	55	54	4 09	37	37	14	56	21 00
10	14	07	19 09	21 04	2s 10	37	39	16	56	00
11	18	21 58	22	14	8 10	37	41	18	55	00
12	22	49	35	24	13 42	37	43	21	55	00
13	26	40	48	35	18 33	37	45	23	54	01
14	19 30	21 30	20 00	21 45	22 33	13 37	20 46	21 26	20 54	21 01
15	34	19	11	54	25 34	37	48	29	52	01
16	38	08	23	22 04	27 24	37	50	31	51	02
17	42	20 57	33	12 28	00	38	52	34	51	02
18	46	46	43	20 27	18	38	54	38	50	02
19	50	34	53	28 25	21	39	55	41	49	03
20	54	21	21 01	34	22 17	39	57	44	49	03
21	19 58	20 08	21 10	22 40	18 16	13 39	20 59	21 47	20 48	21 03
22	20 01	19 55	18	44	13 29	40	59	51	47	03
23	05	42	25	48	8 07	40	21 02	54	46	04
24	09	28	32	51	2 22	40	04	58	46	05
25	13	13	38	53	3N 34	41	05	22 01	45	05
26	17	18 59	43	53	9 30	42	07	05	44	05
27	21	44	48	52	15 11	43	08	09	43	05
28	20 25	18 29	21 52	22 51	20 18	13 43	21 09	22 13	20 42	21 05
29	29	13	56	22 48	24 27	44	11	17	42	05
30	33	17 57	59	44	27 11	45	13	20	41	05
31	37	41	22 01	39	28 05	46	14	24	40	06

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

FEBRUARY, 1912

New Moon February 18th in ♋ 28° 29'

Longitude of the Planets

D	☉ ♈	♀ ♊	♂ ♈	♂ ♈	♂ ♈	♂ ♈	♂ ♈	♂ ♈	♂ ♈	♂ ♈
1	11 17	3 05	21 42	19 58	13 34	10 16	0 32	0 06	21 53	25 26
2	12 18	4 18	23 09	5 01 13	36	25	52	09	52	24
3	13 18	5 30	24 37	20 24	38	35	1 12	13	50	20
4	14 19	6 42	26 06	5 02 20	40	44	33	16	48	17
5	15 20	7 56	27 36	19 52	42	53	54	20	47	14
6	16 21	9 08	29 06	3 05 56	45	11 02	2 16	23	45	10
7	17 22	10 21	0 00 37	17 30	13 47	11 11	2 37	0 27	21 44	25 07
8	18 22	11 34	2 09	0 03 36	50	19	59	30	42	04
9	19 23	12 47	3 42	13 17	52	28	3 22	33	41	01
10	20 24	14 00	5 15	25 38	55	36	45	37	39	24 58
11	21 25	15 13	6 50	7 4 45	58	45	4 08	40	38	55
12	22 25	16 26	8 25	19 41	14 01	53	31	43	37	52
13	23 26	17 39	10 02	1 03 33	04	12 01	55	47	35	48
14	24 27	18 52	11 39	13 23	14 07	12 09	5 19	0 50	21 34	24 45
15	25 27	20 05	13 17	25 15	11	17	43	53	33	42
16	26 28	21 18	14 55	7 00 12	14	24	6 08	57	31	39
17	27 28	22 31	16 35	19 15	17	32	32	1 00	30	36
18	28 29	23 44	18 15	1 00 25	21	39	57	03	29	33
19	29 29	24 57	19 57	13 44	25	46	7 23	06	27	30
20	0 00 30	2 0 10	21 39	26 11	28	53	48	10	26	27
21	1 30	27 23	23 23	8 00 49	14 32	13 00	8 14	1 13	21 25	24 23
22	2 31	28 37	25 07	21 38	36	07	40	16	24	20
23	3 31	29 50	26 52	4 04 41	40	14	9 06	19	22	17
24	4 32	1 00 03	28 37	17 59	44	20	33	22	21	14
25	5 32	2 16	0 00 25	1 00 35	49	27	10 00	25	19	10
26	6 32	3 30	2 13	15 29	53	33	27	28	20	07
27	7 33	4 43	4 03	29 42	57	39	54	31	18	04
28	8 33	5 56	5 53	14 05 13	15 02	13 45	11 21	1 34	21 17	24 01
29	9 33	7 10	7 44	28 57	06	51	49	37	16	23 58

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

FEBRUARY, 1912

Full Moon February 2nd in Ω $12^{\circ} 18'$

Declination of the Planets

D	ST	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ N	♂ S	♂ N
1	20 41	17 24	22 03	22 33	26 55	13 47	21 15	22 28	20 40	21 06
2	45	07	04	25	23 45	47	17	32	40	06
3	49	16 50	05	16	18 58	48	18	36	38	07
4	53	32	05	06	13 05	48	19	40	38	07
5	57	15	04	21 54	6 37	50	20	45	37	07
6	21 01	15 57	02	41	0 02	50	22	49	36	07
7	21 05	15 38	22 00	21 27	6 21	13 52	21 23	22 53	20 35	21 08
8	08	20	21 58	11	12 15	52	24	57	34	08
9	12	01	54	20 54	17 27	54	25	23 01	34	08
10	16	14 42	50	36	21 47	54	26	05	33	08
11	20	22	46	16	25 05	56	27	09	32	09
12	24	03	41	19 55	27 14	57	28	13	32	09
13	28	13 43	35	33	28 08	59	29	17	31	09
14	21 32	13 23	21 28	19 09	27 44	13 59	21 30	23 21	20 31	21 09
15	36	02	21	18 44	26 04	14 01	31	25	30	10
16	40	12 42	13	18	23 14	03	32	29	29	10
17	44	21	05	17 50	19 23	04	33	33	28	10
18	48	00	20 56	20	14 41	05	34	37	27	10
19	52	11 39	46	16 50	9 22	06	35	41	27	11
20	56	18	36	18	3 36	08	36	45	26	11
21	22 00	10 57	20 25	15 44	2 23	14 09	21 36	23 49	20 25	21 11
22	04	35	14	09	8 22	11	37	53	25	11
23	08	13	02	14 33	14 07	12	38	57	24	11
24	12	9 51	19 49	13 55	19 19	13	38	24 00	23	11
25	15	29	36	16	23 40	15	39	04	23	12
26	19	07	22	12 36	26 45	16	40	08	22	12
27	23	8 44	08	11 54	28 12	18	41	11	21	12
28	22 27	8 22	18 53	11 11	27 45	14 19	21 41	24 15	26 20	21 13
29	31	7 59	38	10 27	25 23	21	42	18	20	13

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

MARCH, 1912

New Moon March 18th in ♋ 27° 32'

Longitude of the Planets

D	☉ ° ♈'	♀ ° ♊'	♂ ° ♈'	♂ ° ♏'	♂ ° ♏'	♂ ° ♏'	♂ ° ♏'	♂ ° ♏'	♂ ° ♏'	♂ ° ♏'
1	10 33	8 23	9 36	13 48	15 11	13 56	12 16	1 40	21R15	23 54
2	11 33	9 36	11 29	28 38	16	14 02	44	43	14	51
3	12 33	10 50	13 22	13m18	21	07	13 12	46	13	48
4	13 34	12 03	15 17	27 42	25	12	41	49	12	45
5	14 34	13 17	17 13	11=43	30	17	14 09	52	11	42
6	15 34	14 30	19 09	25 20	35	22	38	54	10	39
7	16 34	15 43	21 06	8m31	15 41	14 26	15 07	1 57	21 10	23 35
8	17 34	16 57	23 03	21 18	46	31	36	2 00	09	32
9	18 34	18 10	25 00	3 ↑ 44	51	35	16 05	03	08	29
10	19 33	19 24	26 58	15 55	56	39	34	05	07	26
11	20 33	20 37	28 55	27 55	16 02	43	17 04	08	07	23
12	21 33	21 51	0 ♀ 52	9W48	07	47	33	11	06	20
13	22 33	23 04	2 48	21 40	13	50	18 03	13	05	16
14	23 33	24 18	4 44	3W34	16 19	14 54	18 33	2 16	21 05	23 13
15	24 33	25 31	6 38	15 34	24	57	19 03	18	04	10
16	25 32	26 45	8 31	27 43	30	15 00	33	21	04	07
17	26 32	27 59	10 21	10 ♀ 03	36	03	20 03	23	03	04
18	27 32	29 12	12 09	22 36	42	06	34	25	03	02
19	28 31	0 ♀ 26	13 53	5 ♀ 21	48	08	21 04	28	02	22 57
20	29 31	1 39	15 35	18 19	54	10	35	30	02	54
21	0 ♀ 31	2 53	17 12	1 8 31	17 00	15 12	22 06	2 32	21 01	22 51
22	1 30	4 06	18 45	14 54	06	14	37	34	01	48
23	2 30	5 20	20 13	28 30	13	16	23 08	37	01	44
24	3 29	6 34	21 36	12 II 18	19	18	39	39	00	41
25	4 29	7 47	22 53	26 16	25	19	24 10	41	00	38
26	5 28	9 01	24 04	10 ☽ 24	32	20	42	43	00	35
27	6 27	10 14	25 09	24 41	38	21	25 13	45	00	32
28	7 27	11 28	26 08	9 ♏ 02	17 45	15 22	25 45	2 47	21 00	22 28
29	8 26	12 42	26 59	23 26	51	23	26 16	49	20 59	25
30	9 25	13 55	27 45	7m47	58	23	48	51	59	22
31	10 24	15 09	28 22	22 00	18 04	24	27 20	53	59	19

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

MARCH, 1912

Full Moon March 3rd in η $12^{\circ} 33'$

Declination of the Planets

D	ST	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ N	♂ S	♂ N
1	22 35	7 37	18 22	9 41	21 17	14 22	21 43	24 22	20 19	21 13
2	39	14	05	8 54	15 50	24	43	25	19	13
3	43	6 51	17 48	06	9 33	26	44	28	18	13
4	47	28	31	7 17	2 52	27	44	31	18	13
5	51	05	13	6 26	3s47	29	45	34	17	14
6	55	5 42	16 54	5 34	10 05	30	45	37	17	14
7	22 59	5 18	16 35	4 42	15 45	14 32	21 46	24 40	20 16	21 14
8	23 03	4 55	16	3 48	20 33	33	46	43	16	14
9	07	31	15 56	2 54	24 19	36	47	46	15	14
10	11	08	36	1 49	26 54	37	47	48	15	14
11	15	3 44	15	04	28 11	39	48	51	14	14
12	19	21	14 54	0 08	10	41	48	53	14	14
13	23	2 57	32	N48	26 51	43	48	56	12	15
14	23 26	2 34	14 10	1 44	24 19	14 45	21 48	24 58	20 12	21 15
15	30	10	13 48	2 40	20 44	47	49	25 00	11	15
16	34	1 46	25	3 35	16 14	48	49	02	11	15
17	38	23	02	4 29	11 01	50	50	04	10	15
18	42	0 59	12 38	5 23	5 16	52	50	06	10	15
19	46	35	14	6 15	0N47	54	50	08	09	15
20	50	11	11 50	7 06	6 55	56	50	09	09	16
21	23 54	0N12	11 26	7 55	12 51	14 58	21 50	25 11	20 08	21 16
22	58	36	01	8 42	18 19	15 00	50	12	08	16
23	0 02	1 00	10 36	9 27	22 55	02	51	13	07	16
24	06	23	10	10 09	26 19	04	51	15	07	16
25	10	47	9 45	49	28 09	06	51	16	06	16
26	14	2 11	19	11 25	11	07	51	16	06	16
27	18	34	8 52	59	26 22	09	51	17	06	16
28	0 22	2 57	8 26	12 30	22 51	15 11	21 51	25 18	20 06	21 16
29	26	3 21	7 59	57	17 56	13	51	18	05	16
30	30	44	32	13 20	12 02	15	51	19	05	16
31	33	4 07	05	40	5 34	17	51	19	04	16

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

APRIL, 1912

New Moon (Eclipse) April 17th in γ $27^{\circ} 6'$

Longitude of the Planets

D	☉ ° γ '	♀ ° κ '	♂ ° γ '	♂ ° ω '	♂ ° δ '	♂ ° ι '	♂ ° Π '	♂ ° ω '	♂ ° ω '	♂ ° ω '
1	11 23	16 22	28 53	6 00	18 11	15R24	27 52	2 54	20D59	22 16
2	12 22	17 36	29 17	19 45	18	24	28 24	56	59	13
3	13 22	18 49	33	3M11	25	23	56	58	59	10
4	14 21	20 03	43	16 17	31	23	29 29	3 00	59	07
5	15 20	21 17	45	29 03	38	22	0 ω 01	01	21 00	03
6	16 19	22 30	R40	11 $\dagger$ 32	45	21	0 33	03	00	00
7	17 18	23 44	29 30	23 46	18 52	15 20	1 06	3 04	21 00	21 57
8	18 17	24 57	13	5V348	59	19	39	06	00	54
9	19 15	26 11	28 50	17 43	19 06	18	2 11	07	00	50
10	20 14	27 25	22	29 36	13	16	44	09	01	47
11	21 13	28 38	27 50	11 ω 32	21	14	3 17	10	01	44
12	22 12	29 52	14	23 34	28	12	50	11	01	41
13	23 11	1 γ 06	26 35	5 κ 46	35	10	4 23	12	02	38
14	24 10	2 19	25 54	18 13	19 42	15 08	4 56	3 14	21 02	21 35
15	25 08	3 33	11	0 γ 56	50	05	5 29	15	03	31
16	26 07	4 46	24 27	13 57	57	03	6 02	16	03	28
17	27 06	6 00	23 44	27 17	20 04	00	35	17	04	25
18	28 04	7 14	01	10 δ 53	12	14 57	7 08	18	04	22
19	29 03	8 27	22 20	24 44	19	54	42	19	05	19
20	0 δ 01	9 41	21 42	8 Π 46	26	50	8 15	20	05	16
21	1 00	10 54	21 06	22 57	20 34	14 47	8 49	3 21	21 06	21 12
22	1 58	12 08	20 34	7 ω 12	41	43	9 22	21	07	09
23	2 57	13 22	06	21 28	49	39	56	22	07	06
24	3 55	14 35	19 42	5 Ω 42	56	35	10 30	23	08	03
25	4 54	15 49	23	19 52	21 04	31	11 04	24	09	00
26	5 52	17 02	08	3 μ 55	12	26	37	24	10	20 57
27	6 50	18 16	18 58	17 49	19	22	12 11	25	11	20 53
28	7 49	19 30	18 53	1 ω 34	21 27	14 17	12 45	3 25	21 11	20 50
29	8 47	20 43	D53	15 07	34	12	13 19	26	12	47
30	9 45	21 57	58	28 28	42	07	13 53	26	13	44

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

APRIL, 1912

Full Moon (Eclipse) April 1st in $\approx 11^{\circ} 23'$

Declination of the Planets

D	ST	☉ N	♀ S	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S
1	0 37	4 31	6 38	13 57	1 05	15 19	21 51	25 19	20 03	21 16	
2	41	54	10	14 09	7 35	21	51	19	03	16	
3	45	5 17	5 43	18	13 35	23	51	19	03	16	
4	49	40	15	24	18 50	25	51	19	03	16	
5	53	6 03	4 47	25	23 06	28	51	19	02	16	
6	57	25	18	22	26 11	30	51	18	02	16	
7	1 01	6 48	3 50	14 16	27 58	15 32	21 50	25 18	20 01	21 16	
8	05	7 10	22	06	28 24	34	50	17	01	16	
9	09	33	2 53	13 53	27 30	36	50	16	01	16	
10	13	55	25	37	25 21	38	50	15	01	16	
11	17	8 17	1 56	17	22 06	40	50	14	00	16	
12	21	39	27	12 54	17 54	42	50	12	00	16	
13	25	9 01	0 58	30	12 55	44	49	11	00	16	
14	1 29	9 23	0 30	12 03	7 20	15 46	21 49	25 09	20 00	21 16	
15	33	44	01	11 34	1 20	48	49	07	19 59	16	
16	37	10 06	N28	04	4N51	50	49	06	59	16	
17	40	27	57	10 34	11 00	52	48	04	59	16	
18	44	48	1 26	03	16 45	54	48	01	59	19	
19	48	11 09	55	9 32	21 46	56	47	24 59	58	16	
20	52	29	2 24	02	25 36	58	47	57	58	16	
21	1 56	11 50	2 53	8 33	27 53	16 01	21 46	24 54	19 58	21 16	
22	2 00	12 10	3 22	05	28 21	03	46	51	58	16	
23	04	30	51	7 39	26 56	05	45	48	58	16	
24	08	50	4 19	15	23 48	07	45	45	58	16	
25	12	13 10	48	6 53	19 16	09	45	42	57	15	
26	16	29	5 17	34	13 42	11	45	39	57	15	
27	20	49	45	17	7 31	13	44	35	57	15	
28	2 24	14 08	6 13	6 02	1 02	16 15	21 43	24 32	19 57	21 15	
29	28	26	41	5 50	5s25	17	42	28	57	15	
30	32	45	7 10	40	11 31	19	42	21	57	15	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

MAY, 1912

New Moon May 16th in γ 25° 13'

Longitude of the Planets

D	☉ ° 8'	♀ ° 7'	♂ ° 7'	♂ ° 7'	♂ ° 7'	♂ ° 7'	♂ ° 7'	♂ ° 7'	♂ ° 7'	♂ ° 7'
1	10 43	23 10	19 07	11 34	21 50	14 _R 02	14 27	3 26	21 14	20 41
2	11 42	24 24	21	24 27	57	13 57	15 02	27	15	37
3	12 40	25 37	40	7 4 04	22 05	51	36	27	16	34
4	13 33	26 51	20 03	19 28	13	46	16 10	27	17	31
5	14 36	28 04	31	1 3 40	20	40	44	27	18	28
6	15 34	29 18	21 02	13 42	28	34	17 19	28	20	25
7	16 32	0 8 32	21 38	25 37	22 36	13 28	17 53	3 28	21 21	20 21
8	17 30	1 45	22 18	7 3 30	44	22 18	28	3 _R 28	22	18
9	18 28	2 59	23 01	19 25	51	16 19	02	28	23	15
10	19 26	4 12	48	1 3 26	59	10	37	27	24	12
11	20 24	5 26	24 38	13 39	23 07	03 20	11	27	26	09
12	21 22	6 39	25 32	26 07	15	12 57	46	27	27	05
13	22 20	7 53	26 29	8 7 55	22	50 21	20	27	28	02
14	23 18	9 06	27 29	22 06	23 30	12 43	21 55	3 27	21 29	19 59
15	24 15	10 20	28 32	5 8 39	38	37 22	30	26	31	56
16	25 13	11 34	29 38	19 36	46	30 23	05	25	32	53
17	26 11	12 47	0 8 47	3 11 52	53	23	40	25	34	50
18	27 09	14 01	1 58	18 22	24 01	16 24	15	25	35	47
19	28 07	15 14	3 13	3 1 01	09	08	50	24	37	43
20	29 04	16 28	4 29	17 40	17	01 25	25	24	38	40
21	0 11 02	17 41	5 49	2 11 14	24 24	11 54	26 00	3 23	21 40	19 37
22	1 00	18 55	7 10	16 37	32	47	35	23	41	34
23	1 57	20 08	8 35	0 11 47	40	39 27	10	22	43	31
24	2 55	21 22	10 02	14 40	47	32	45	21	44	27
25	3 53	22 35	11 32	28 19	55	24 28	20	20	46	24
26	4 50	23 49	13 03	11 3 42	25 03	17	55	19	47	21
27	5 48	25 03	14 38	24 53	11	09 29	31	19	49	18
28	6 45	26 16	16 14	7 11 50	25 18	11 02	0 11 06	3 18	21 51	19 15
29	7 43	27 30	17 54	20 36	26	10 54	41	17	52	12
30	8 40	28 43	19 35	3 1 11	34	46	1 17	16	54	09
31	9 38	29 57	21 19	15 35	41	39	52	14	56	05

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

MAY, 1912

Full Moon May 1st in η $10^{\circ} 43'$ Full Moon May 30th in ϵ $8^{\circ} 40'$

Declination of the Planets

D	ST	☉ N	♀ N	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	2 36	15 03	7 37	5 33	17 02	16 21	21 41	24 20	19 57	21 15
2	40	21	8 05	29	21 39	23	41	16	57	15
3	44	39	33	27	25 12	25	40	11	57	14
4	48	56	9 00	28	27 28	27	40	07	57	14
5	51	16 14	27	31	28 22	29	39	02	57	14
6	55	31	54	36	27 54	31	38	23 57	57	14
7	2 59	16 47	10 21	5 44	26 09	16 33	21 37	23 52	19 57	21 14
8	3 03	17 04	48	53	23 15	35	37	47	57	14
9	07	20	11 14	6 05	19 23	37	36	42	57	14
10	11	36	40	19	14 42	39	35	36	57	14
11	15	52	12 06	35	9 23	41	34	31	57	13
12	19	18 07	31	52	3 35	43	34	25	57	13
13	23	22	57	7 11	2N31	45	33	19	57	13
14	3 27	18 37	13 22	7 32	8 41	16 47	21 32	23 13	19 57	21 13
15	31	51	46	54	14 38	49	31	07	57	13
16	35	19 05	14 10	8 18	20 01	51	31	01	57	13
17	39	19	34	43	24 23	53	30	22 55	58	12
18	43	32	58	9 12	27 17	55	29	48	58	12
19	47	45	15 21	37	28 20	57	28	41	58	12
20	51	58	44	10 06	27 24	59	27	35	58	12
21	3 55	20 10	16 07	10 36	24 36	17 01	21 26	22 28	19 58	21 11
22	58	22	29	11 07	20 18	03	25	20	58	11
23	4 02	34	50	39	14 55	05	24	13	59	11
24	06	45	17 11	12 11	8 51	07	23	06	59	11
25	10	56	32	45	2 29	08	22	21 58	59	10
26	14	21 07	53	13 19	3S53	10	21	51	59	10
27	18	17	18 12	54	9 58	12	21	43	20 00	10
28	4 22	21 27	18 32	14 29	15 33	17 14	21 20	21 35	20 01	21 10
29	26	37	51	15 04	20 22	16	19	27	01	09
30	30	46	19 09	40	24 12	18	18	19	01	09
31	34	54	27	16 16	26 50	19	17	10	01	09

SIMPLIFIED SCIENTIFIC

EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JUNE, 1912

New Moon June 15th in Π $23^{\circ} 58'$

Longitude of the Planets

D	☉ °Π'	♀ °Π'	♂ °♊'	♂ °♊'	♂ °♊'	♂ °♊'	♂ °♊'	♂ °♊'	♂ °♊'	♂ °♊'
1	10 35	1 10	23 05	27 50	25 49	10R31	2 28	3R13	21 58	19 02
2	11 33	2 24	24 54	9V56	56	23	3 03	12	59	18 59
3	12 30	3 37	26 44	21 54	26 04	16	39	11	22 01	56
4	13 28	4 51	28 38	3W48	11	08	4 14	10	03	53
5	14 25	6 04	0Π33	15 40	19	01	50	08	05	49
6	15 22	7 18	2 32	27 33	26	9 53	5 25	3 07	07	46
7	16 20	8 32	4 32	9X33	26 34	9 45	6 01	3 06	22 09	18 43
8	17 17	9 45	6 34	21 43	41	38	37	04	11	40
9	18 14	10 59	8 37	4Y09	49	30	7 12	03	12	37
10	19 12	12 12	10 43	16 56	56	23	48	01	14	34
11	20 09	13 26	12 50	0808	27 04	15	8 24	00	16	30
12	21 06	14 40	14 59	13 46	11	08	9 00	2 58	18	27
13	22 04	15 53	17 08	27 53	18	01	36	57	20	24
14	23 01	17 07	19 19	12Π24	27 25	8 53	10 11	2 55	22 22	18 21
15	23 58	18 20	21 31	27 15	33	46	47	53	24	18
16	24 56	19 34	23 43	12☉17	40	39	11 23	52	26	15
17	25 53	20 48	25 54	27 20	47	32	59	50	28	11
18	26 50	22 01	28 06	12♂15	54	25	12 35	48	30	07
19	27 48	23 15	0☉17	26 54	28 01	18	13 12	46	32	05
20	28 45	24 29	2 28	11m12	08	12	48	45	34	03
21	29 42	25 42	4 38	25 08	28 15	8 05	14 24	2 43	22 36	17 58
22	0☉39	26 56	6 46	8=41	22	7 58	15 00	41	39	55
23	1 37	28 10	8 53	21 54	29	52	36	39	41	52
24	2 34	29 23	10 59	4m50	36	45	16 12	37	43	49
25	3 31	0☉37	13 02	17 32	43	39	49	35	45	46
26	4 28	1 51	15 05	0♂01	50	33	17 25	33	47	43
27	5 25	3 04	17 05	12 21	57	27	18 01	31	49	39
28	6 23	4 18	19 04	24 32	29 03	7 21	18 38	2 29	22 51	17 36
29	7 20	5 32	21 00	6V37	10	15	19 14	27	53	33
30	8 17	6 45	22 55	18 36	17	10	51	25	56	30

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JUNE, 1912

Full Moon June 29th in $\text{V} 7^{\circ} 20'$

Declination of the Planets

D	ST	☉ N	♀ N	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	4 38	22 03	19 44	16 52	28 09	17 21	21 16	21 02	20 01	21 09
2	42	11	20 01	17 28	05	23	15	20 53	01	09
3	46	19	18	18 01	26 42	25	14	44	02	08
4	50	26	33	40	24 07	27	13	35	02	08
5	54	33	49	19 15	20 32	28	12	26	02	08
6	58	39	21 03	49	16 07	30	11	17	02	07
7	5 02	22 45	21 17	20 22	11 03	17 31	21 10	20 08	20 03	21 07
8	06	51	31	54	5 30	33	09	19 59	03	07
9	09	56	44	21 25	0N23	35	08	49	04	06
10	13	23 01	56	55	6 25	36	07	40	04	06
11	17	05	22 08	22 23	12 23	38	06	30	04	06
12	21	09	19	49	17 57	40	05	20	04	05
13	25	13	29	23 13	22 45	41	04	10	05	05
14	5 29	23 16	22 39	23 34	26 18	17 43	21 03	19 00	20 05	21 05
15	33	19	48	54	28 06	45	02	18 50	06	04
16	37	21	57	24 10	27 52	46	01	39	06	04
17	41	23	23 05	24 25	36	48	00	29	07	04
18	45	25	12	36	21 35	50	20 59	18	07	03
19	49	26	18	44	16 18	51	58	07	08	03
20	53	27	24	50	10 14	53	58	17 57	08	03
21	5 57	23 27	23 29	24 53	3 48	17 54	20 57	17 46	20 09	21 02
22	6 01	27	34	53	2S38	56	56	35	09	02
23	05	27	37	50	8 48	57	55	23	10	02
24	09	26	40	45	14 28	59	54	12	10	01
25	13	24	43	37	19 24	18 00	53	01	10	01
26	16	23	44	26	23 25	01	53	16 49	11	01
27	20	20	45	14	26 18	02	52	38	11	01
28	6 24	23 18	23 45	23 59	27 55	18 03	20 51	16 26	20 12	21 00
29	28	15	45	42	28 11	05	50	14	12	00
30	32	12	44	23	27 06	07	49	02	13	00

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JULY, 1912

New Moon July 14th in ♌ 21° 38'

Longitude of the Planets

D	☉ ° 00'	♀ ° 00'	♂ ° 00'	♂ ° 00'	♂ ° 00'	♂ ° 00'	♂ ° 00'	♂ ° 00'	♂ ° 00'	♂ ° 00'
1	9 14	7 59	24 48	0 31	29 23	7R04	20 27	2R23	22 58	17 27
2	10 11	9 13	26 39	12 23	30	6 59	21 03	20	23 00	23
3	11 08	10 27	28 27	24 14	36	54	40	18	02	20
4	12 06	11 40	0 14	6 30	43	48	22 17	16	04	17
5	13 03	12 54	1 58	18 06	49	44	53	14	07	14
6	14 00	14 08	3 41	0 15	56	39	23 30	12	09	11
7	14 57	15 22	5 21	12 39	0 11 02	6 34	24 07	2 09	23 11	17 08
8	15 54	16 35	6 59	25 22	08	30	43	07	13	05
9	16 52	17 49	8 35	8 30	14	25	25 20	05	15	01
10	17 49	19 03	10 09	22 06	20	21	57	03	18	16 58
11	18 46	20 17	11 41	6 11	26	17	26 33	00	20	55
12	19 43	21 31	13 11	20 45	32	13	27 10	1 58	22	52
13	20 41	22 45	14 39	5 42	38	10	47	56	24	49
14	21 38	23 58	16 05	20 55	0 44	6 06	28 24	1 53	23 27	16 45
15	22 35	25 12	17 28	6 12	50	03	29 01	51	29	42
16	23 32	26 26	18 50	21 23	56	5 59	38	49	31	39
17	24 30	27 40	20 09	6 17	1 01	56	0 15	46	33	36
18	25 27	28 54	21 25	20 48	07	54	52	44	35	33
19	26 24	0 08	22 39	4 52	12	51	1 29	41	38	30
20	27 21	1 22	23 52	18 29	18	48	2 06	39	40	26
21	28 19	2 36	25 01	1 42	1 23	5 46	2 43	1 37	23 42	16 23
22	29 16	3 49	26 08	14 33	29	44	3 20	34	44	20
23	0 13	5 03	27 12	27 07	34	42	57	32	47	17
24	1 11	6 17	28 14	9 27	39	40	4 35	29	49	14
25	2 08	7 31	29 13	21 37	44	39	5 12	27	51	10
26	3 05	8 45	0 09	3 39	49	37	49	25	53	07
27	4 03	9 59	1 01	15 37	54	5 36	6 27	22	55	04
28	5 00	11 13	1 51	27 31	1 59	5 35	7 04	1 20	23 58	16 02
29	5 57	12 27	2 37	9 23	2 04	34	41	17	24 00	15 58
30	6 55	13 41	3 20	21 15	09	34	8 19	15	02	55
31	7 52	14 55	3 59	3 09	13	33	56	13	04	51

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JULY, 1912

Full Moon July 29th in $\approx 5^{\circ} 57'$

Declination of the Planets

D	ST	☉ N	♀ N	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	6 36	23 08	23 42	23 02	24 49	18 08	20 49	15 50	20 13	20 59
2	40	04	39	22 40	21 27	09	48	38	13	59
3	44	22 59	36	16	17 14	11	47	26	14	59
4	48	54	32	21 51	12 21	12	47	14	14	58
5	52	49	28	25	6 57	13	46	01	15	58
6	56	43	22	20 57	1 15	14	46	14 49	15	58
7	7 00	22 37	23 16	20 28	4 38	18 16	20 45	14 36	20 17	20 57
8	04	30	09	19 59	10 30	17	45	23	17	57
9	08	23	02	28	16 05	18	44	11	18	57
10	12	16	22 54	18 57	21 06	19	44	13 58	18	56
11	16	08	45	25	25 06	20	43	45	19	56
12	20	00	36	17 53	27 37	22	43	32	19	56
13	23	21 52	25	20	28 14	23	42	18	20	55
14	7 27	21 43	22 15	16 47	26 45	18 24	20 42	13 05	20 20	20 55
15	31	34	03	14	23 18	25	41	12 52	21	54
16	35	24	21 51	15 41	18 16	26	41	38	21	54
17	39	14	38	07	12 12	27	40	25	22	54
18	43	04	25	14 33	5 37	28	40	11	22	54
19	47	20 53	11	00	1 503	29	40	11 58	23	53
20	51	42	20 57	13 26	7 28	30	40	44	23	53
21	7 55	20 31	20 41	12 53	13 22	18 31	20 39	11 30	20 24	20 52
22	59	19	26	21	18 32	32	39	16	24	52
23	8 03	07	09	11 48	22 46	33	39	02	25	51
24	07	19 54	19 52	16	25 53	34	39	10 48	25	51
25	11	42	35	10 45	27 46	35	39	34	26	51
26	15	29	17	15	28 19	35	39	20	26	50
27	19	15	18 58	9 45	27 31	36	39	06	27	50
28	8 23	19 02	18 39	9 16	25 28	18 37	20 39	9 52	20 27	20 50
29	27	18 48	19	8 48	22 19	38	39	39	28	49
30	31	33	17 59	21	18 15	38	39	23	28	49
31	34	19	36	7 56	13 28	39	39	08	29	48

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

AUGUST, 1912

New Moon August 12th in ♌ 19° 22'

Longitude of the Planets

D	☉ °♌'	♀ °♍'	♄ °♎'	♃ °♏'	♅ °♐'	♁ °♑'	♂ °♒'	♁ °♓'	♄ °♈'	♅ °♉'
1	8 49	16 09	4 34	15 05	2 18	5R33	9 34	1R10	24 06	15 48
2	9 47	17 23	5 05	27 08	22	33	10 11	08	08	45
3	10 44	18 37	32	9 ♐20	27	D33	49	06	11	42
4	11 42	19 51	54	21 46	31	33	11 26	03	13	39
5	12 39	21 05	6 12	4 ♏29	35	34	12 04	01	15	36
6	13 37	22 19	25	17 33	39	34	42	0 59	17	33
7	14 34	23 33	6 33	1 ♐03	2 43	5 35	13 19	0 56	24 19	15 29
8	15 32	24 47	36	15 00	47	36	57	54	21	26
9	16 29	26 01	R33	29 25	51	37	14 35	52	23	23
10	17 27	27 15	25	14 ♐15	55	38	15 13	49	25	19
11	18 24	28 29	12	29 22	59	40	50	47	28	16
12	19 22	29 43	5 53	14 ♌38	3 02	42	16 28	45	30	13
13	20 20	0 ♎57	29	29 51	06	44	17 06	43	32	10
14	21 17	2 11	5 00	14 ♎52	3 09	5 46	17 44	0 40	24 34	15 07
15	22 15	3 25	4 25	29 31	13	48	18 22	38	36	04
16	23 13	4 39	3 46	13 ♐44	16	50	19 00	36	38	01
17	24 10	5 53	02	27 30	19	53	38	34	40	14 57
18	25 08	7 08	2 16	10 ♎48	22	56	20 16	32	42	54
19	26 06	8 22	1 26	23 42	25	59	55	30	44	51
20	27 04	9 36	0 34	6 ♐15	28	6 02	21 33	28	46	48
21	28 01	10 50	29 ♌41	18 33	3 31	6 05	22 11	0 26	24 48	14 45
22	28 59	12 04	28 48	0 ♏39	34	09	49	24	49	42
23	29 57	13 18	27 56	12 37	36	13	23 28	22	51	38
24	0 ♎55	14 32	06	24 30	39	16	24 06	20	53	35
25	1 53	15 46	26 19	6 ♏22	41	20	44	18	55	32
26	2 51	17 00	25 37	18 15	43	25	25 23	16	57	29
27	3 49	18 14	24 59	0 ♏10	45	29	26 01	14	59	26
28	4 47	19 28	24 28	12 09	3 47	6 34	26 40	0 12	25 01	14 22
29	5 45	20 42	04	24 14	49	38	27 18	10	02	19
30	6 43	21 56	23 46	6 ♐27	51	43	57	09	04	16
31	7 41	23 11	38	18 50	53	48	28 35	07	06	13

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

AUGUST, 1912

Full Moon August 27th in $\times$ $3^{\circ} 49'$

Declination of the Planets

D	ST	☉ N	♀ N	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	8 38	18 04	17 17	7 31	8 10	18 40	20 39	8 54	20 30	20 48
2	42	17 48	16 56	09	2 31	41	39	39	30	48
3	46	33	34	6 47	3N18	42	40	24	31	47
4	50	17	11	28	9 06	42	40	10	31	47
5	54	01	15 48	11	14 40	43	40	7 55	32	47
6	58	16 45	25	5 55	19 45	43	41	40	32	46
7	9 02	16 28	15 01	5 42	24 01	18 44	20 41	7 25	20 33	20 46
8	06	11	14 37	31	27 01	45	41	10	33	46
9	10	15 54	12	22	28 22	46	42	6 55	34	45
10	14	37	13 47	17	27 45	46	42	40	34	45
11	18	19	22	14	25 05	47	43	25	35	44
12	22	01	12 56	13	20 38	47	43	10	35	44
13	26	14 43	30	16	14 50	48	44	5 54	36	44
14	9 30	14 25	12 03	5 22	8 14	18 48	20 44	5 39	20 36	20 43
15	34	06	11 37	31	1 20	49	45	24	37	43
16	38	13 47	10	43	5S26	49	45	08	37	43
17	41	28	10 42	58	11 45	50	46	4 53	38	42
18	45	09	14	6 15	17 19	50	47	38	38	42
19	49	12 49	9 47	36	21 55	50	48	22	39	42
20	53	30	18	58	25 24	51	48	07	39	41
21	9 57	12 10	8 50	7 23	27 36	18 51	20 49	3 51	20 40	20 41
22	10 01	11 50	21	50	28 28	51	50	35	40	41
23	05	30	7 52	8 17	27 58	52	51	20	40	40
24	09	09	23	46	26 12	52	51	04	41	40
25	13	10 49	6 54	9 14	23 16	52	52	2 49	41	40
26	17	28	24	43	19 22	53	53	33	41	39
27	21	07	5 55	10 11	14 42	53	54	17	42	39
28	10 25	9 46	5 25	10 37	9 27	18 53	20 55	2 01	20 42	20 39
29	29	24	4 55	11 02	3 48	53	56	1 46	43	38
30	33	03	25	25	2N02	54	57	30	43	38
31	37	8 42	3 55	46	7 54	54	58	14	44	38

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

SEPTEMBER, 1912

New Moon September 11th in $\text{m} 18^{\circ} 21'$

Longitude of the Planets

D	☉ °m'	♀ °m'	♂ °m'	♂ °m'	♂ °m'	♂ °m'	♂ °m'	♂ °m'	♂ °m'	♂ °m'	♂ °m'
1	8 39	24 25	23 _D 37	1 25	3 55	6 53	29 14	0 _R 05	25 08	14 10	
2	9 37	25 39	23 45	14 14	56	59	52	03	09	07	
3	10 35	26 53	24 01	27 22	58	7 04	0 _≡ 31	02	11	03	
4	11 33	28 07	24 26	10 _{II} 50	59	10	1 10	00	13	01	
5	12 31	29 21	25 00	24 40	4 00	15	49 ₂₉ 59	25 14	13 57		
6	13 29	0 _≡ 35	25 41	8 _☾ 52	01	21	2 28	57	16	54	
7	14 28	1 49	26 31	23 25	4 02	7 27	3 06	29 56	25 18	13 51	
8	15 26	3 03	27 29	8 _☾ 14	03	34	45	54	19	47	
9	16 24	4 17	28 33	23 13	04	40	4 24	53	21	44	
10	17 23	5 31	29 44	8 _m 13	05	47	5 03	51	22	41	
11	18 21	6 45	1 _m 01	23 05	05	53	42	50	24	38	
12	19 20	7 59	2 25	7 _≡ 41	06	8 00	6 21	49	25	35	
13	20 18	9 14	3 32	21 56	06	07	7 00	47	27	32	
14	21 16	10 28	5 25	5 _m 46	4 07	8 14	7 40	29 46	25 28	13 29	
15	22 15	11 42	7 01	19 10	07	21	8 19	45	29	25	
16	23 13	12 56	8 41	2 4 09	07	29	58	44	31	22	
17	24 12	14 10	10 23	14 46	_R 07	36	9 37	43	32	19	
18	25 11	15 24	12 08	27 06	06	44	10 17	42	34	16	
19	26 09	16 38	13 54	9 _☾ 12	06	52	56	41	35	13	
20	27 08	17 52	15 43	21 09	06	9 00	11 35	40	36	10	
21	28 07	19 06	17 32	3 _☾ 02	4 06	9 08	12 15	29 39	25 37	13 06	
22	29 05	20 20	19 21	14 54	05	16	54	38	39	03	
23	0 _≡ 4	21 34	21 11	26 48	04	24	13 34	37	40	00	
24	1 03	22 48	23 02	8 _☾ 48	03	33	14 13	37	41	57	
25	2 02	24 02	24 52	20 56	02	41	53	36	42	53	
26	3 00	25 16	26 42	3 4 13	01	50	15 33	35	43	50	
27	3 59	26 30	28 32	15 42	00	59	16 12	35	44	47	
28	4 58	27 44	0 _≡ 21	28 22	3 59	10 08	16 52	29 34	25 45	12 44	
29	5 57	28 58	2 10	11 8 15	57	17	17 32	34	46	41	
30	6 56	0 _m 12	3 59	24 22	56	26	18 12	33	47	38	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

SEPTEMBER, 1912

Full Moon (Eclipse) September 26th in γ $3^{\circ} 0'$

Declination of the Planets

D	ST	☉ N	♀ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N
1	10 41	8 20	3 24	12 04	13 32	18 54	20 59	0 58	20 44	20 37	
2	45	7 58	2 54	19	18 43	54	21 01	42	45	37	
3	49	36	23	31	23 09	54	02	26	45	37	
4	52	14	1 53	40	26 28	54	03	11	45	37	
5	56	6 52	22	45	28 18	54	04	s05	45	36	
6	11 00	29	0 51	46	28 21	54	05	21	45	36	
7	11 04	6 07	0 20	12 44	26 28	18 54	21 06	0 37	20 46	20 35	
8	08	5 45	s11	38	22 46	54	07	53	46	35	
9	12	22	41	29	17 32	54	09	1 09	46	35	
10	16	4 59	1 12	16	11 14	54	10	25	46	34	
11	20	36	43	11 59	4 21	54	11	41	47	34	
12	24	13	2 14	39	2s39	54	12	57	47	34	
13	28	3 51	45	16	9 21	54	14	2 13	47	34	
14	11 32	3 27	3 16	10 49	15 25	18 54	21 15	2 29	20 47	20 34	
15	36	04	46	20	20 33	54	16	45	48	33	
16	40	2 41	4 17	9 48	24 32	53	18	3 01	48	33	
17	44	18	48	14	27 13	53	19	17	48	33	
18	48	1 55	5 18	8 38	28 29	53	20	33	48	33	
19	52	32	49	7 59	28 22	53	22	49	49	32	
20	56	08	6 19	19	26 55	53	23	4 04	49	32	
21	11 59	0 45	6 49	6 38	24 17	18 52	21 24	4 20	20 49	20 32	
22	12 03	22	7 19	5 55	20 37	52	25	36	49	32	
23	07	s02	49	11	16 08	52	27	52	49	31	
24	11	25	8 19	4 27	10 59	52	29	5 08	50	31	
25	15	49	48	3 42	5 22	51	30	24	50	31	
26	19	1 12	9 17	2 56	0N30	51	31	39	50	31	
27	23	35	47	09	6 28	51	33	55	50	30	
28	12 27	1 59	10 15	1 23	12 16	18 50	21 35	6 11	20 50	20 30	
29	31	2 22	44	0 36	17 38	50	36	27	50	30	
30	35	45	11 13	s11	22 18	49	37	42	50	30	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

OCTOBER, 1912

New Moon (Eclipse) October 10th in $\approx 16^{\circ} 48'$

Longitude of the Planets

D	☉ ° ′	♀ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′
1	7 55	1 26	5 46	7 42	3R54	10 35	18 52	29R33	25 48	12 34
2	8 54	2 39	7 33	21 18	53	45	19 32	32	49	31
3	9 53	3 53	9 19	5 508	51	54	20 12	32	50	28
4	10 52	5 07	11 04	19 12	49	11 04	20 52	32	51	25
5	11 52	6 21	12 49	3 29	47	13	21 32	31	52	22
6	12 51	7 35	14 33	17 56	45	23	22 12	31	52	18
7	13 50	8 49	16 16	2 29	3 43	11 33	22 52	29 31	25 53	12 15
8	14 49	10 03	17 58	17 04	40	43	23 32	31	54	12
9	15 49	11 17	19 39	1 34	38	53	24 12	31	54	09
10	16 48	12 31	21 20	15 53	35	12 04	24 53	29D31	55	06
11	17 47	13 45	23 00	29 57	33	14	25 33	31	56	03
12	18 47	14 58	24 39	13 42	30	24	26 13	31	56	11 59
13	19 46	16 12	26 18	27 05	27	35	26 54	31	57	56
14	20 46	17 26	27 56	10 7	3 24	12 46	27 34	29 32	25 57	11 53
15	21 45	18 40	29 33	22 47	22	56	28 14	32	58	50
16	22 45	19 54	1 09	5 09	18	13 07	28 55	32	58	47
17	23 44	21 08	2 45	17 17	15	18	29 36	33	59	44
18	24 44	22 21	4 20	29 15	12	29	0 16	33	59	40
19	25 44	23 35	5 55	11 07	09	40	0 57	34	26 00	37
20	26 43	24 49	7 29	22 59	05	51	1 38	34	00	34
21	27 43	26 03	9 02	4 55	3 02	14 02	2 19	29 35	26 00	11 31
22	28 43	27 17	10 35	16 59	2 58	14	2 59	35	00	28
23	29 43	28 30	12 07	29 14	55	25	3 40	36	01	25
24	0 42	29 44	13 39	11 43	51	37	4 21	37	01	22
25	1 42	0 4 58	15 10	24 28	47	48	5 02	38	01	18
26	2 42	2 11	16 40	7 30	43	15 00	5 43	39	01	15
27	3 42	3 25	18 10	20 47	39	12	6 24	39	01	12
28	4 42	4 39	19 40	4 20	2 35	15 24	7 05	29 40	26 01	11 03
29	5 42	5 52	21 09	18 04	31	35	7 46	41	01	05
30	6 42	7 06	22 37	1 59	27	47	8 28	42	R01	03
31	7 42	8 20	24 05	16 01	23	59	9 09	43	01	10 59

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

OCTOBER, 1912

Full Moon October 26th in γ $2^{\circ} 42'$

Declination of the Planets

D	ST	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ S	♂ S	♂ N
1	12 39	3 09	11 41	0 58	25 54	18 49	21 39	6 58	20 50	20 30
2	43	32	12 09	1 44	28 05	49	40	7 14	50	30
3	47	55	36	2 31	28 36	48	42	29	50	29
4	51	4 19	13 04	3 17	27 16	48	43	45	50	29
5	55	42	31	4 03	24 11	47	45	8 00	50	29
6	59	5 05	58	4 49	19 34	47	46	16	50	29
7	13 03	5 28	14 24	5 34	13 46	18 46	21 48	8 31	20 50	20 29
8	07	51	50	6 19	7 12	46	49	47	50	29
9	10	6 14	15 16	7 03	0 18	45	51	9 02	50	29
10	14	37	41	7 47	6s33	45	53	17	50	28
11	18	59	16 06	8 31	12 57	44	54	32	50	28
12	22	7 22	31	9 13	18 35	43	56	48	50	28
13	26	44	55	9 55	23 08	42	57	10 03	50	28
14	13 30	8 07	17 19	10 37	26 24	18 42	21 59	10 18	20 50	20 28
15	34	29	42	11 18	28 13	41	22 00	33	50	28
16	38	51	18 05	11 58	28 35	41	01	48	50	28
17	42	9 13	27	12 38	27 33	40	03	11 03	50	28
18	46	35	49	13 17	25 15	40	04	18	50	28
19	50	57	19 11	13 55	21 53	39	06	32	50	28
20	54	10 19	32	14 32	17 39	38	07	47	50	27
21	13 58	10 40	19 52	15 09	12 42	18 37	22 09	12 02	20 49	20 27
22	14 02	11 02	20 12	15 44	7 14	37	10	16	49	27
23	06	23	31	16 19	1 25	35	12	31	49	27
24	10	44	50	16 54	4N35	35	13	45	49	27
25	14	12 05	21 08	17 27	10 31	34	15	59	49	27
26	17	25	26	17 59	16 08	34	16	13 13	48	27
27	21	46	43	18 31	21 06	33	17	28	48	27
28	14 25	13 06	22 00	19 02	25 05	18 32	22 19	13 42	20 48	20 27
29	29	26	15	19 31	27 40	31	20	55	48	27
30	33	46	31	20 00	28 35	30	21	14 09	47	27
31	37	14 05	45	20 28	27 40	29	23	23	47	27

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

NOVEMBER, 1912

New Moon November 9th in η $16^{\circ} 43'$

Longitude of the Planets

D	☉ ° η '	♀ ° $\uparrow$ '	♂ ° η '	♂ ° η '	♂ ° η '	♂ ° η '	♂ ° η '	♂ ° η '	♂ ° η '	♂ ° η '	♂ ° η '
1	8 42	9 33	25 33	0 08	2R19	16 11	9 50	29 45	26R01	10 56	
2	9 42	10 47	27 00	14 18	15	24	10 32	46	01	53	
3	10 42	12 00	28 25	28 29	10	36	11 13	47	01	50	
4	11 42	13 14	29 51	12 η 39	06	48	11 54	48	00	46	
5	12 42	14 27	1 $\uparrow$ 16	26 46	01	17 00	12 36	50	00	43	
6	13 43	15 41	2 40	10 $\simeq$ 47	1 57	13 13	17	51	00	40	
7	14 43	16 54	4 03	24 40	1 52	17 25	13 59	29 53	26 00	10 37	
8	15 43	18 08	5 25	8 η 23	48	38 14	41	54	00	34	
9	16 43	19 21	6 46	21 52	43	50 15	22	56	25 59	31	
10	17 44	20 35	8 07	5 $\uparrow$ 04	38	18 03	16 04	57	59	27	
11	18 44	21 48	9 26	18 00	34	16 16	46	59	58	24	
12	19 45	23 02	10 44	0 $\simeq$ 38	29	29 17	28	0 $\simeq$ 00	58	21	
13	20 45	24 15	12 00	12 59	24	41 18	09	02	57	18	
14	21 45	25 28	13 15	25 07	1 19	18 54	18 51	0 04	25 57	10 14	
15	22 46	26 42	14 27	7 $\simeq$ 05	14	19 07	19 33	06	56	11	
16	23 47	27 55	15 38	18 57	10	20 20	15	08	56	08	
17	24 48	29 08	16 47	0 $\times$ 47	05	33 20	57	09	55	05	
18	25 48	0 $\simeq$ 22	17 52	12 42	00	46 21	40	11	55	03	
19	26 48	1 35	18 55	24 46	0 55	59 22	22	13	54	9 59	
20	27 49	2 48	19 54	7 η 04	50	20 12	23 04	15	53	55	
21	28 49	4 01	20 50	19 40	0 45	20 25	23 46	0 18	25 52	9 52	
22	29 50	5 14	21 41	2 $\times$ 37	40	39 24	28	20	52	49	
23	0 $\uparrow$ 51	6 28	22 27	15 56	35	52 25	11	22	51	46	
24	1 51	7 41	23 07	29 37	30	21 05	25 53	24	50	43	
25	2 52	8 54	23 41	13 Π 37	25	18 26	35	26	49	40	
26	3 53	10 07	24 08	27 51	21	32 27	18	28	48	36	
27	4 53	11 20	24 27	12 $\simeq$ 14	16	45 28	00	31	47	33	
28	5 54	12 33	24 37	26 40	0 11	21 58	28 43	0 33	25 46	9 30	
29	6 55	13 45	24R38	11 Ω 03	06	22 12	29 26	36	45	27	
30	7 56	14 58	24 29	25 20	01	25 0 $\uparrow$ 08		38	44	24	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

NOVEMBER, 1912

Full Moon November 24th in Π $1^{\circ} 51'$

Declination of the Planets

D	ST	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ S	♂ S	♂ N
1	14 41	14 25	22 59	20 54	24 59	18 28	22 24	14 37	20 47	20 27
2	45	44	23 13	21 20	20 47	27	25	50	47	27
3	49	15 03	26	45	15 24	26	27	15 04	46	27
4	53	21	38	22 08	9 12	25	28	17	46	27
5	57	40	49	31	2 34	24	30	30	46	27
6	15 01	58	24 00	52	4s09	23	31	43	45	27
7	15 05	16 16	24 10	23 12	10 37	18 22	22 32	15 56	20 45	29 27
8	09	33	19	31	16 29	22	33	16 09	45	27
9	13	51	28	49	21 27	21	35	22	44	27
10	17	17 08	35	24 06	25 14	20	36	35	44	27
11	21	25	43	21	27 37	19	37	47	44	28
12	24	41	49	35	28 31	18	38	17 00	44	28
13	28	57	55	47	27 57	17	40	12	43	28
14	15 32	18 13	25 00	24 58	26 04	18 16	22 41	17 24	20 43	20 28
15	36	29	04	25 08	23 01	15	42	36	42	28
16	40	44	07	16	19 03	14	43	48	42	28
17	44	59	10	23	14 21	13	45	18 00	41	28
18	48	19 13	12	29	9 06	12	46	11	41	28
19	52	27	13	32	3 27	11	47	23	40	28
20	56	41	14	35	2N26	10	48	34	40	29
21	16 00	19 55	25 13	25 35	8 22	18 09	22 49	18 45	20 40	20 29
22	04	20 08	13	35	14 07	08	50	56	40	29
23	08	20	11	32	19 23	07	51	19 07	39	29
24	12	33	09	28	23 48	06	52	18	39	29
25	16	45	05	22	26 56	05	53	28	38	29
26	20	56	01	15	28 24	05	54	39	38	29
27	24	21 07	24 57	05	27 57	04	55	49	37	30
28	16 28	21 18	24 51	24 54	25 38	18 03	22 56	19 59	20 37	20 30
29	32	29	45	41	21 42	02	57	20 09	36	30
30	35	39	38	26	16 30	01	58	19	35	30

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

DECEMBER, 1912

New Moon December 8th in $\uparrow 16^{\circ} 3'$

Longitude of the Planets

D	☉ ° ↑'	♀ ° ♄'	♂ ° ↑'	♂ ° ♄'	♂ ° ↑'	♂ ° ♄'	♂ ° ↑'	♂ ° ♄'	♂ ° ↑'	♂ ° ♄'	♂ ° ↑'
1	8 57	16 11	24 _R 09	9 27	29 _R 56	22 39	0 51	0 40	25 _R 43	9 21	
2	9 57	17 24	23 38	23 25	51	52	1 34	43	42	18	
3	10 58	18 37	22 55	7 _☿ 12	47	23 06	2 17	46	41	14	
4	11 59	19 49	22 02	20 49	42	19	3 00	48	40	11	
5	13 00	21 02	20 59	4 _♈ 16	37	33	3 42	51	39	08	
6	14 01	22 15	19 48	17 33	32	46	4 25	53	38	06	
7	15 02	23 27	18 30	0 ↑ 39	29 28	24 00	5 08	0 56	25 37	9 02	
8	16 03	24 40	17 09	13 33	23	14	5 51	59	35	9 59	
9	17 04	25 52	15 45	26 15	19	27	6 35	1 02	34	55	
10	18 05	27 05	14 24	8 _♈ 44	14	41	7 18	04	33	53	
11	19 06	28 17	13 07	21 00	10	55	8 01	07	32	49	
12	20 07	29 29	11 56	3 _♈ 05	05	25 08	8 44	10	30	45	
13	21 08	0 _♈ 41	10 54	15 00	01	22	9 27	13	29	42	
14	22 09	1 54	10 02	26 50	28 56	25 36	10 11	1 16	25 28	8 39	
15	23 10	3 06	9 21	8 _♈ 38	52	50	10 54	19	26	36	
16	24 11	4 18	8 50	20 30	48	26 03	11 38	22	25	33	
17	25 12	5 30	8 31	2 _♈ 31	44	17	12 21	25	23	30	
18	26 14	6 42	8 23	14 46	40	31	13 04	28	22	27	
19	27 15	7 53	8 _D 24	27 21	36	44	13 48	31	21	23	
20	28 16	9 05	8 35	10 8 21	32	58	14 32	34	19	20	
21	29 17	10 17	8 54	23 47	28 28	27 12	15 15	1 37	25 18	8 17	
22	0 _♈ 18	11 28	9 21	7 _♈ 40	24	26	15 59	40	16	14	
23	1 19	12 40	9 56	21 59	20	39	16 43	43	15	11	
24	2 20	13 51	10 36	6 _♈ 38	17	53	17 26	1 46	13	8 08	
25	3 21	15 02	11 22	21 29	13	28 07	18 10	49	12	04	
26	4 22	16 14	12 13	6 _♈ 23	10	20	18 54	53	10	01	
27	5 24	17 25	13 08	21 11	06	34	19 38	56	08	7 58	
28	6 25	18 36	14 07	5 _♈ 47	28 03	28 48	20 22	1 59	25 07	7 55	
29	7 26	19 47	15 10	20 06	00	29 01	21 06	2 02	05	52	
30	8 27	20 57	16 15	4 _♈ 06	27 57	15	21 50	06	04	48	
31	9 28	22 08	17 24	17 48	54	29	22 34	09	02	45	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

DECEMBER, 1912

Full Moon December 24th in φ $2^{\circ} 20'$

Declination of the Planets

D	ST	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ S	♂ S	♂ N
1	16 39	21 48	24 30	24 10	10 29	18 00	22 58	20 28	20 34	20 30
2	43	57	22 23	51	4 01	17 59	59	37	34	30
3	47	22 06	13	30	2s34	58	23 00	47	33	31
4	51	14	03	08	8 58	57	01	56	33	31
5	55	22 23	53 22	44 14	52	56	02 21	04	32	31
6	59	30	42	18	20 00	56	02	13	32	31
7	17 03	22 37	23 30	21 52	24 06	17 55	23 03	21 21	20 31	20 31
8	07	43	17	25	26 54	54	03	30	31	32
9	11	49	04 20	59 28	17	53	04	38	30	32
10	15	55	22 50	32 28	11	52	05	46	29	32
11	19 23	00	36	10 26	41	51	06	53	28	32
12	23	05	21 19	48 23	58	51	06 22	01	28	32
13	27	09	05	30 20	15	50	07	08	27	33
14	17 31	23 13	21 49	19 15	15 46	17 50	23 07	22 15	20 27	20 33
15	35	17	32	04 10	43	49	08	22	26	33
16	39	20	14 18	56 5	15	48	08	28	26	33
17	42	22 20	56	51 0s28		47	09	35	25	34
18	46	24	38	50 6	17	46	09	41	24	34
19	50	25	18	52 12	01	45	10	47	23	34
20	54	26 19	59	57 17	25	45	10	53	23	34
21	17 58	23 27	19 38	19 04	22 10	17 44	23 11	22 58	20 22	20 35
22	18 02	27	18	13 25	50	44	11 23	04	21	35
23	06	27 18	56	24 28	00	43	12	09	20	35
24	10	26	35	36 28	17	43	12	14	20	35
25	14	25	12	49 26	33	42	12	18	19	36
26	18	23 17	50 20	04 22	57	42	12	23	19	36
27	22	21	26	18 17	54	41	13	27	18	37
28	18 26	23 18	17 03	20 33	11 53	17 41	23 13	23 31	20 18	20 37
29	30	15 16	39	49 5	20	40	13	34	17	37
30	34	11	14 21	04 1s20		39	13	38	16	37
31	38	07 15	50	19 7	48	39	13	41	15	38

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	8935	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5695	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	35	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	85	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	55	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	58	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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Date	Long.	Dec.	Date	Long.	Dec.
January 21	28° II 25'	17° N 18'	July 20	0° 5 12'	17° N 42'
February 20	28° II 3'	17° N 23'	August 19	0° 5 46'	17° N 41'
March 22	27° II 59'	17° N 28'	September 18	1° 5 4'R	17° N 38'
April 21	28° II 16'	17° N 33'	October 18	1° 5 3'	17° N 36'
May 21	28° II 48'	17° N 38'	November 17	0° 5 42'	17° N 34'
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OCEANSIDE, CALIFORNIA, U. S. A.

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1913

New Moon January 7th in $\text{ws } 16^{\circ} 36'$

Longitude of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1913

Full Moon January 22nd in Ω $1^{\circ} 53'$

Declination of the Planets

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2		46	22	57	14	59		48	19	2		38		14		47		13		38
3		50		52	14	33	22		2	23	18		37		14		49		12	39
4		53		46	14	7		16	26	22		37		14		52		12		39
5		57		39	13	40		28	28	5		37		14		54		11		39
6	19	1		32	13	13		40	28	21		37		14		55		10		39
7	19	5	22	25	12	46	22	51	27	12	17	36	23	14	23	57	20	9	20	40
8		9		17	12	18	23		1	24	47		36		14		58		9	40
9		13		9	11	50		10	21	18		36		14		59		8		41
10		17			1	11	22		18	17	0		36		14	24	0		7	41
11		21	21	52	10	54		26	12	4		35		14		0		6		41
12		25		42	10	25		32	6	43		35		14		1		5		41
13		29		32	9	56		37	1	6		35		13		1		4		42
14	19	33	21	22	9	27	23	40	4	N37	17	35	23	13	24	0	20	4	20	42
15		37		11	8	58		43	10	16		35		13		0		3		42
16		41			0	8	29	45	15	40		35		13	23	59		2		42
17		45	20	48	7	59		45	20	34		35		12		58		1		43
18		49		37	7	30		44	24	36		35		12		57		1		43
19		53		24	7	0		41	27	23		35		12		55		0		44
20		57		11	6	30		38	28	29		35		12		54	19	59		44
21	20	0	19	58	6	0	23	33	27	36	17	35	23	11	23	51	19	58	20	44
22		4		45	5	29		27	24	43		35		11		49		57		44
23		8		31	4	59		19	20	5		35		11		47		56		45
24		12		17	4	29		10	14	9		35		11		44		56		45
25		16			2	3	58		0	7	28		35		10		41		55	45
26		20	18	48	3	28	22	48	0	31		35		10		37		54		45
27		24		32	2	57		35	6	s16		36		9		34		53		46
28	20	28	18	17	2	26	22	21	12	34	17	36	23	9	23	30	19	52	20	46
29		32			1	56		5	18	6		36		8		26		51		47
30		36	17	45	1	25	21	48	22	39		36		8		22		51		47
31	20	40	17	28	0	54	21	29	25	59	17	37	23	7	23	17	19	50	20	47

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1913

New Moon February 6th in ♋ 17° 7'

Longitude of the Planets

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

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Full Moon February 21st in $\text{m} 2^{\circ} 16'$

Declination of the Planets

D	S	T	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	
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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1913

New Moon March 8th in ♄ 17° 19'

Longitude of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1913

Eclipse of Moon March 22nd in $\approx 1^{\circ} 16'$

Declination of the Planets

D	S	T	S	N	S	S	N	S	S	S	S	N	S	S	N	S	S	N		
1	22	31	7	42	13	1	2	26	28	41	17	57	22	47	19	19	19	27	20	55
2		38	7	19	13	26	1	34	28	9		58		46		8		27		55
3		42	6	56	13	51	0	42	26	17		59		45	18	56		26		55
4		46	6	33	14	16	0	N 9	23	17	18	0		45		44		25		55
5		50	6	10	14	39	0	59	19	19		1		44		32		24		55
6		54	5	47	15	3	1	48	14	38		2		43		19		24		55
7	22	58	5	24	15	26	2	34	9	24	18	4	22	42	18	7	19	23	20	56
8	23	2	5	1	15	49	3	19	3	50		5		41	17	54		22		56
9		6	4	37	16	11	4	1	1	N 55		6		40		41		21		56
10		10	4	14	16	33	4	40	7	38		7		40		28		21		56
11		14	3	50	16	54	5	16	13	9		8		39		15		20		56
12		18	3	27	17	15	5	49	18	14		9		38		2		20		56
13		22	3	3	17	36	6	18	22	38		11		37	16	48		19		57
14	23	25	2	39	17	55	6	44	26	4	18	12	22	37	16	34	19	18	20	57
15		29	2	16	18	15	7	5	28	11		13		36		20		17		57
16		33	1	52	18	33	7	22	28	42		14		35		6		17		57
17		37	1	28	18	51	7	35	27	26		16		34	15	52		16		57
18		41	1	4	19	9	7	44	24	22		17		33		38		16		57
19		45	0	41	19	26	7	48	19	40		18		32		23		15		58
20		49	0	17	19	42	7	47	13	41		19		32		8		15		58
21	23	53	0	N 7	19	57	7	42	6	51	18	21	22	31	14	54	19	14	20	58
22		57	0	30	20	12	7	33	0	S 22		22		30		39		14		58
23	0	1	0	54	20	26	7	19	7	30		23		29		23		13		58
24		5	1	18	20	40	7	2	14	5		24		29		8		13		58
25		9	1	41	20	52	6	41	19	45		26		28	13	53		12		58
26		13	2	5	21	4	6	17	24	11		27		27		37		12		58
27		17	2	28	21	15	5	51	27	11		29		26		21		11		58
28	0	21	2	52	21	25	5	22	28	36	18	30	22	26	13	6	19	11	20	58
29		25	3	15	21	34	4	51	28	30		32		25	12	50		10		58
30		29	3	38	21	42	4	20	26	58		33								

Calculated for Mean Noon at Greenwich

April, 1913

Eclipse of Sun April 6th in γ $16^{\circ} 4'$

Longitude of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1913

Full Moon April 20th in $\approx 29^{\circ} 47'$

Declination of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1913

New Moon May 6th in γ $15^{\circ} 20'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂												
	°	′	°	′	°	′	°	′	°	′	°	′	°	′											
1	10	29	0	R22	14	23	15	48	3	57	17	48	24	56	7	30	23	25	1	21					
2	11	27	29	51	15	39	27	41	4	5		49	25	42		30		26		18					
3	12	26	γ	21	16	57	9	γ	43		12		50	26	28		31		27		15				
4	13	24	28	52	18	19	21		56		20		50	27	14		31		28		11				
5	14	22	28	26	19	42	4	γ	24		27		50	28	0		32		29		8				
6	15	20	28	1	21	8	17		7		35		R50	28	46		32		30		5				
7	16	18	27	39	22	36	0	II	6	4	42		17	50	29	32	7	32		23	31	1	2		
8	17	16	27	19	24	5	13		19		50		50	0	γ	18		32		32	0		58		
9	18	14	27	2	25	36	26		46		57		49	1	4		33		33				55		
10	19	12	26	46	27	11	10	☐	25	5	5		48	1	50		33		35				52		
11	20	10	26	33	28	46	24		14		13		47	2	35		33		36				49		
12	21	8	26	23	0	γ	24	8	☐	11	20		46	3	21		33		37				46		
13	22	6	26	15	2	4	22		15		28		45	4	7		R33		38				43		
14	23	4	26	9	3	46	6	☐	24	5	36		17	43	4	53	7	33		23	39	0		39	
15	24	1	26	4	5	29	20		38		43			41	5	38		33		41				36	
16	24	59	26	D	4	7	16	4	☐	55	51		39	6	24		33		42					33	
17	25	57	26	6	9		5	19		11	59		37	7	10		32		43					30	
18	26	55	26	10	10	55	3	☐	24	6	6		35	7	55		32		45					27	
19	27	53	26	16	12	47	17		29		14		32	8	41		32		46					24	
20	28	50	26	24	14	41	1	γ	21		22		30	9	26		31		48					20	
21	29	48	26	34	16	37	14		58	6	30		17	27	10	12	7	31		23	49	0			17
22	0	II	46	26	47	18	36		28	15	37			24	10	57		30		51					14
23	1	43	27	1	20	36	11	☐	12		45			21	11	43		30		52					11
24	2	41	27	18	22	38	23		48		53			18	12	28		29		54					8
25	3	38	27	36	24	41	6	☐	7	7	1			14	13	13		29		55					5
26	4	36	27	56	26	47	18		12		9			10	13	59		28		57					1
27	5	34	28	18	28	54	0	γ	6		16			6	14	44		27		58		29			58
28	6	31	28	42	1	II	2		11	56	7	24		17	2	15	29	7	27		24	0		γ	55
29	7	29	29	7	3	12	23		45		32		16	58	16	14		26		2					52
30	8	26	29	34	5	23	5	γ	41		40			54	16	59		25		3					49
31	9	24	0	γ	2	7	34		17	47	7	47		16	49	17	44	7	24		24	5		29	46

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1913

Full Moon May 20th in η 28° 50'

Declination of the Planets

D	S	T	☉ N	♀ N	♂ N	♂ S	♂ N	♂ S	♂ S	♂ S	♂ S	♂ N
1	2	35	14 59	15 43	2 58	7 0	19 20	22 13	3 16	18 59	20 57	
2		39	15 17	19 3	27 1	20		22 13	2 57	59	57	
3		43	35	14 55	3 57	4 N 26	23	13	39	59	57	
4		47	52	31 4	29 10	8	24	13	21	59	57	
5		51	16 10	8 5	2 15	34	26	13	3	59	57	
6		54	27	13 46	5 35	20 26	27	13	1 44	59	57	
7	2	58	16 43	13 24	6 10	24 26	19 29	22 14	1 26	18 59	20 56	
8	3	2	17 0	4 6	46 27	14	30	14	8	59	56	
9		6	16 12	44 7	23 28	31	32	14	0 50	59	56	
10		10	32	25 8	0 28	6	33	14	32	59	56	
11		14	48	8 8	39 25	57	35	14	13	59	56	
12		18	18 3	11 51	9 18	22 14	36	14	N 5	59	56	
13		22	18	35 9	58 17	12	38	15	23	59	55	
14	3	26	18 33	11 21	10 38	11 13	19 39	22 15	0 41	18 59	20 55	
15		30	47	8 11	20 4	38	41	16	59	59	55	
16		34	19 2	10 56	12 1	2 S 12	42	16	1 17	59	55	
17		38	15	45 12	43 8	56	44	16	36	59	55	
18		42	29	35 13	25 15	10	46	16	54	59	55	
19		46	42	26 14	8 20	34	47	17	2 12	19 0	54	
20		50	55	19 14	50 24	45	48	17	30	0	54	
21	3	54	20 7	10 12	15 33	27 27	19 49	22 18	2 47	19 0	20 54	
22		58	19	7 16	15 28	31	50	18	3 5	0	54	
23	4	1	31	2 16	57 27	58	52	19	23	0	53	
24		5	43 9	59 17	38 25	58	53	19	41	0	53	
25		9	54	57 18	19 22	47	55	20	59	0	53	
26		13	21 4	55 18	59 18	40	56	21	4 16	0	53	
27		17	15	55 19	38 13	53	58	22	34	1	52	
28	4	21	21 25	9 55	20 15	8 37	19 59	22 22	4 52	19 1	20 52	
29		25	34	57 20	52 3	3 20	0	23	5 9	1	52	
30		29	44	59 21	26 2	N 39	2	23	26	1	52	
31	4	33	21 52	10 2	21 59	8 21	20 3	22 24	5 44	19 2	20 51	

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1913

New Moon June 4th in Π $13^{\circ} 14'$

Longitude of the Planets

D	☉ ° II'	♀ ° 8'	♂ ° II'	♂ ° 8'	♂ ° II'	♂ ° 13'	♂ ° 13'	♂ ° 13'	♂ ° 13'	♂ ° 13'	♂ ° 13'	♂ ° 13'
1	10 21	0 33	9 46	0 8	7 55	16 45	18 29	7 23	24 7	29 42		
2	11 19	1 4	11 58	12 47	8 3	40 19	14 22		8 39			
3	12 16	1 37	14 10	25 45	11 35	19 59	21 10		36			
4	13 14	2 11	16 22	9 II 4	19 30	20 44	20 12		33			
5	14 11	2 47	18 33	22 42	26 24	21 29	19 14		30			
6	15 9	3 23	20 44	6 35	34 19	22 13	18 15		26			
7	16 6	4 1	22 53	20 39	8 42	16 13	22 58	7 17	24 17	29 23		
8	17 3	4 40	25 14	♂ 49	50 7	23 43	16 19		20			
9	18 1	5 20	27 7	19 2	57 2	24 27	14 21		17			
10	8 58	6 1	29 12	3 ♀ 14	9 5	15 56	25 12	13 23	14			
11	19 55	6 43	1 15	17 24	13 50	25 56	12 25		11			
12	20 53	7 26	3 16	1 30	21 43	26 40	10 27		7			
13	21 50	8 10	5 15	15 30	28 37	27 25	9 29		4			
14	22 47	8 54	7 12	29 25	9 36	15 31	28 9	7 7	24 30	29 1		
15	23 45	9 40	9 6	13 13	44 24	28 53	6 32		58			
16	24 42	10 26	10 58	26 53	51 17	29 37	4 34		55			
17	25 39	11 14	12 48	10 † 22	59 11	0 8 21	3 36		52			
18	26 36	12 1	14 36	23 38	10 6	4 1	5 38		48			
19	27 34	12 50	16 22	6 39	14 14	57 1	49 0		45			
20	28 31	13 39	18 5	19 24	22 50	2 33	6 58		42			
21	29 28	14 30	19 45	1 53	10 29	14 43	3 17	6 56	24 45	28 39		
22	0 25	15 21	21 23	14 7	37 35	4 1	54 47		35			
23	1 23	16 12	22 59	26 9	44 28	4 44	53 49		32			
24	2 20	17 4	24 33	8 2	52 21	5 28	51 51		29			
25	3 17	17 57	26 4	19 50	59 14	6 12	49 53		26			
26	4 14	18 50	27 33	1 40	11 6	6 55	47 55		23			
27	5 11	19 44	28 59	13 35	14 13	59 7	38 45		20			
28	6 9	20 38	0 23	25 42	11 21	13 51	8 22	6 43	24 59	28 17		
29	7 6	21 33	1 44	8 6	28 44	9 5	41 25	1 13				
30	8 3	22 28	3 2	20 51	11 36	13 36	9 48	6 39	25 3	28 10		

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1913

Full Moon June 18th in $\uparrow$ $26^{\circ} 36'$

Declination of the Planets

D	S	T	☉	♀	♂	☽	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1	4	37	22	1	10	6	22	29	13	51	20	4	22	25	6	1	19	2	20	51
2		41		9		10	22	58	18	55		5		26		18		2		51
3		45		17		15	23	24	23	14		7		27		35		3		50
4		49		24		21	23	47	26	27		8		27		52		3		50
5		53		31		28	24	8	28	13		9		28	7	9		3		50
6		57		38		35	24	26	28	16		10		29		26		3		50
7	5	1	22	44	10	42	24	42	26	31	20	12	22	30	7	43	19	4	20	49
8		5		49		51	24	54	23	4		13		30	8	0		4		49
9		9		55		59	25	4	18	14		14		31		16		5		49
10		12	23	0	11	8	25	11	12	25		15		32		33		5		49
11		16		4		18	25	16	5	58		17		33		49		5		48
12		20		8		28	25	17	0	s 45		18		34	9	6		5		48
13		24		12		38	25	16	7	23		19		35		22		6		47
14	5	28	23	15	11	49	25	13	13	38	20	20	22	36	9	38	19	6	20	47
15		32		18	12	0	25	8	19	8		21		37		54		7		47
16		36		21		12	25	0	23	35		22		37	10	10		7		47
17		40		23		24	24	50	26	42		24		38		25		8		46
18		44		25		36	24	38	28	17		25		39		41		8		46
19		48		26		48	24	24	28	14		26		40		57		9		45
20		52		27	13	1	24	9	26	41		27		41	11	12		9		45
21	5	56	23	27	13	13	23	52	23	50	20	28	22	42	11	27	19	10	20	45
22	6	0		27		26	23	34	19	57		29		43		42		10		45
23		4		27		39	23	14	15	19		30		44		57		10		44
24		8		26		53	22	53	10	10		31		45	12	12		10		44
25		12		25	14	6	22	31	4	41		32		46		27		11		43
26		16		23		20	22	8	0	N 57		33		47		42		11		43
27		19		21		33	21	44	6	37		34		48		56		12		42
28	6	23	23	19	14	47	21	19	12	8	20	35	22	49	13	11	19	12	20	42
29		27		16	15	0	20	54	17	18		36		50		25		13		42
30	6	31	23	12	15	14	20	28	21	51	20	37	22	51	13	39	19	14	20	41

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1913

New Moon July 4th in ♊ $11^{\circ} 52'$

Longitude of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1913

Full Moon July 18th in $\text{w} 25^{\circ} 13'$

Declination of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1913

New Moon August 2nd in ♎ 9° 33'

New Moon August 31st in ♍ 7° 27'

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° Ω'	° Π'	° Ω'	° ♄'	° Π'	° ♃'	° Π'	° ♃'	° ♃'	° ♄'	° ♄'	° ♄'
1	8 36	25 5	13R43	24 14	15 5	9 R46	2 4	5 R27	26 14	26 29		
2	9 33	26 11	12 58	9 Ω 0	11	40	2 44	24	16	26		
3	10 31	27 16	12 12	23 56	16	35	3 24	22	18	23		
4	11 28	28 22	11 26	8 ♍53	22	29	4 4	19	20	19		
5	12 25	29 28	10 41	23 45	27	24	4 43	17	22	16		
6	13 23	0 ♄34	9 57	8 ♄23	33	19	5 23	15	25	13		
7	14 21	1 41	9 16	22 44	15 38	9 14	6 2	5 12	26 27	26 10		
8	15 18	2 47	8 37	6 ♍45	43	9 6	42	10	29	7		
9	16 16	3 54	8 3	20 27	48	4 7	21	8	31	4		
10	17 13	5 1	7 34	3 ♄51	53 8	59	8 0	5	33	0		
11	18 11	6 8	7 10	16 57	58	55	8 39	3	35	25 57		
12	19 8	7 15	6 52	29 47	16 3	50	9 18	1	37	54		
13	20 6	8 22	6 41	12 ♃24	8	46	9 57	4 58	39	51		
14	21 4	9 30	6 D36	24 48	16 1	8 42	10 36	4 56	26 41	25 48		
15	22 1	10 37	6 38	7 ♃2	17	38	11 14	54	43	44		
16	22 59	11 45	6 48	19 6	22	35	11 53	52	46	41		
17	23 57	12 53	7 5	1 ♄3	26	31	12 31	49	48	38		
18	24 54	14 1	7 29	12 55	31	28	13 9	47	50	36		
19	25 52	15 9	8 1	24 42	35	25	13 47	45	52	32		
20	26 50	16 17	8 41	6 ♄29	4	22	14 25	43	54	28		
21	27 47	17 26	9 27	18 19	16 44	8 19	15 3	4 41	26 56	25 25		
22	28 45	18 34	10 21	0 8 15	48	17	15 40	39	58	22		
23	29 43	19 43	11 21	12 22	52	14	16 18	36	59	19		
24	0 ♍41	20 52	12 28	24 44	56	12	16 55	34	27 1	15		
25	1 39	22 1	13 41	7 ♄25	59	10	17 32	32	3	12		
26	2 37	23 10	15 1	20 31	17 3	8	18 9	30	5	9		
27	3 35	24 20	16 25	4 ♄3	7	7	18 46	28	7	6		
28	4 33	25 29	17 55	18 3	17 10	8 5	19 23	4 26	27 9	25 3		
29	5 31	26 38	19 29	2 Ω29	14	4	19 59	24	11	0		
30	6 29	27 48	21 8	17 17	17	3	20 35	22	13	24 57		
31	7 27	28 58	22 50	2 ♍21	17 20	8 2	21 12	4 21	27 14	24 54		

Calculated for Mean Noon at Greenwich

August, 1913

Full Moon August 16th in ♊ 22° 59'

Declination of the Planets

[illegible]

[illegible]

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1913

Eclipse of Moon September 15th in $\times$ $22^{\circ} 1'$

Declination of the Planets

d	S	T	☉ N	♀ N	♂ N	♂ N	♂ N	♂ S	♂ N	♂ S	♂ N
1	10	40	8	25	19	34	14	35	5	30	21
2		44	8	3	19	23	14	5	1	s46	13
3		48	7	41	19	10	13	33	8	51	13
4		52	7	19	18	58	12	58	15	18	13
5		55	6	57	18	45	12	21	20	46	14
6	11	59	6	35	18	31	11	43	24	57	14
7	11	3	6	12	18	17	11	2	27	37	21
8		7	5	50	18	2	10	21	28	42	14
9		11	5	27	17	47	9	38	28	12	14
10		15	5	4	17	31	8	54	26	18	14
11		19	4	42	17	15	8	9	23	11	14
12		23	4	19	16	58	7	23	19	8	14
13		27	3	56	16	41	6	37	14	21	15
14	11	31	3	33	16	23	5	51	9	5	21
15		35	3	10	16	5	5	4	3	31	15
16		39	2	47	15	46	4	16	2	N11	15
17		43	2	24	15	27	3	29	7	48	15
18		47	2	0	15	8	2	41	13	11	15
19		51	1	37	14	48	1	54	18	9	15
20		55	1	14	14	27	1	6	22	26	15
21	11	59	0	51	14	7	0	19	25	49	21
22	12	2	0	27	13	45	0	s	28	28	0
23		6	0	4	13	24	1	15	28	43	15
24		10	0	s20	13	2	2	2	27	48	15
25		14	0	43	12	39	2	48	25	11	15
26		18	1	6	12	17	3	34	20	57	15
27		22	1	30	11	53	4	19	15	21	14
28	12	26	1	53	11	30	5	4	8	45	21
29		30	2	17	11	6	5	49	1	34	14
30	12	34	2	40	10	42	6	33	5	s43	21

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1913

New Moon October 29th in $\text{m } 5^{\circ} 28'$

Longitude of the Planets

D	☉ ° ♈'	♀ ° ♍'	♂ ° ♊'	♄ ° ♈'	♅ ° ♈'	♆ ° ♈'	♇ ° ♈'	♁ ° ♈'	♂ ° ♈'	♂ ° ♈'	♂ ° ♈'	♂ ° ♈'	♂ ° ♈'	♂ ° ♈'	♂ ° ♈'
1	7 41	5 50	18 50	25 57	18R10	9 8	8 16	3 R41	27 59	23 15					
2	8 40	7 3	20 27	10m46	10	13 8	45	40	28 0	12					
3	9 40	8 16	22 2	25 12	10	18 9	14	39	1	9					
4	10 39	9 29	23 37	9 † 13	10	24 9	43	39	2	5					
5	11 38	10 42	25 11	22 45	9	29 10	11	38	2	2					
6	12 37	11 55	26 45	5 v 51	9	35 10	39	38	3	22 59					
7	13 36	13 8	28 17	18 34	18	8 9	41	11 7	3 38	28 4	22 56				
8	14 35	14 21	29 49	0 w 56	7	47 11	34	37	5	53					
9	15 35	15 35	1m20	13 4	6	53 12	1	37	6	50					
10	16 34	16 48	2 50	25 0	5	59 12	28	37	7	47					
11	17 33	18 14	20 6	† 50	4 10	6 12	54	37	7	43					
12	18 33	19 15	5 49	18 37	3	12 13	21	37	8	40					
13	19 32	20 28	7 17	0 r 25	2	19 13	46	37	9	37					
14	20 32	21 42	8 44	12 17	18 0	10 26	14 12	3 D37	28 9	22 33					
15	21 31	22 55	10 10	24 14	17 59	33 14	37	37	10	30					
16	22 31	24 9	11 36	6 8 18	57	40 15	1	37	10	27					
17	23 30	25 23	13 1	18 32	55	48 15	21	37	11	24					
18	24 30	26 37	14 24	0 II 56	53	55 15	50	37	11	21					
19	25 29	27 51	15 48	13 31	52 11	3 16	13	37	12	18					
20	26 29	29 4	17 10	26 21	49	11 16	36	38	12	14					
21	27 29	0 18	18 31	9 25	17 47	11 19	16 59	3 38	28 12	22 11					
22	28 28	1 32	19 51	22 47	45	27 17	21	39	13	8					
23	29 28	2 46	21 10	6 27	43	35 17	43	39	13	5					
24	0m28	4 1	22 28	20 26	40	44 18	5	40	13	2					
25	1 28	5 15	23 44	4 m 44	38	52 18	25	40	14	21 59					
26	2 28	6 29	24 59	19 20	35 12	1 18	46	41	14	55					
27	3 28	7 43	26 13	4 10	32	10 19	6	41	14	52					
28	4 28	8 57	27 25	19 6	17 29	12 18	19 26	3 42	28 14	21 49					
29	5 28	10 12	28 35	4 m 2	26	27 19	45	43	14	46					
30	6 28	11 26	29 43	18 49	23	37 20	3	44	14	42					
31	7 28	12 41	0 † 49	3 † 18	17 20	12 46	20 21	3 45	28 14	21 39					

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1913

Full Moon October 15th in ♍ 21° 31'

Declination of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1913

New Moon November 28th in $\uparrow 5^{\circ} 40'$

Longitude of the Planets

[illegible]

Calculate 1 for Mean Noon at Greenwich

November, 1913

Full Moon November 13th in γ 20° 31'

Declination of the Planets

D	S	T	C	S	S	S	S	N	S	N	S	N	S	N						
1	14	40	14	20	4	0	23	18	27	57	21	7	23	6	23	7	19	55	20	5
2		44		39	4	29	23	31	28	33		7		6		6		55		5
3		48		58	4	57	23	43	27	28		6		5		6		55		5
4		52	15	17	5	26	23	53	24	57		6		4		6		55		5
5		56		35	5	54	24	1	21	20		5		3		6		54		5
6	15	0		54	6	23	24	8	16	53		5		2		5		54		5
7	15	4	16	12	6	51	24	12	11	51	21	4	23	1	23	5	19	54	20	5
8		8		29	7	19	24	15	6	27		4		0		5		54		5
9		12		47	7	47	24	15	0	51		4	22	59		6		53		5
10		16	17	4	8	15	24	13	4	N49		4		58		6		53		5
11		20		21	8	43	24	8	10	21		3		57		7		52		6
12		24		37	9	10	24	1	15	34		3		56		7		52		6
13		27		53	9	38	23	50	20	15		2		54		8		51		6
14	15	31	18	9	10	5	23	37	24	8	21	2	22	53	23	9	19	51	20	6
15		35		25	10	32	23	21	26	55		1		52		10		51		6
16		39		40	10	58	23	1	28	20		1		51		11		51		6
17		43		55	11	25	22	38	28	11		0		50		12		50		6
18		47	19	10	11	51	22	12	26	26		0		49		13		50		6
19		51		24	12	17	21	42	23	8	20	59		47		15		49		6
20		55		38	12	42	21	10	18	32		59		46		17		49		6
21	15	59	19	51	13	7	20	36	12	54	20	58	22	45	23	18	19	48	20	7
22	16	3	20	5	13	32	19	59	6	32		58		44		20		48		7
23		7		17	13	57	19	23	0	S15		58		42		23		47		7
24		11		30	14	21	18	46	7	5		58		40		25		47		7
25		15		42	14	45	18	12	13	36		57		39		27		46		7
26		19		54	15	9	17	40	19	22		57		38		30		46		7
27		23	21	5	15	32	17	11	23	58		56		36		33		45		7
28	16	27	21	16	15	55	16	46	27	3	20	56	22	35	23	36	19	45	20	7
29		31		26	16	17	16	26	28	22		55		33		39		44		8
30	16	35	21	36	16	39	16	11	27	55	20	54	22	31	23	42	19	43	20	8

SIMPLIFIED SCIENTIFIC

EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1913

New Moon December 27th in $\text{♋ } 5^{\circ} 9'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	8 42	21 23	22R17	22 7	15R 9	18 26	24R25	4 35	27R59	20 1		
2	9 43	22 39	22 39	4 55	5	39	21	37	58	19 58		
3	10 44	23 54	22D13	17 21	0	51	15	40	57	55		
4	11 45	25 9	22 56	29 30	14 55	19 4	9	42	56	51		
5	12 46	26 25	23 18	11 26	50	16	3	45	35	48		
6	13 47	27 40	23 49	23 15	45	29	23 55	47	54	45		
7	14 48	28 55	24 27	5 2	14 40	19 42	23 46	4 50	27 53	19 42		
8	15 49	0 11	25 11	16 53	35	55	37	52	52	38		
9	16 50	1 26	26 2	28 53	30 20	7	27	55	50	35		
10	17 50	2 41	26 58	11 8	25	20	16	57	49	32		
11	18 51	3 57	27 58	23 35	20	33	4 5	0	48	29		
12	19 52	5 12	29 2	6 20	15	46	22 51	3	47	26		
13	20 53	6 27	0 9	19 23	10	59	38	6	46	23		
14	21 54	7 43	1 19	2 41	14 5	21 13	22 23	5 8	27 44	19 19		
15	22 56	8 58	2 32	16 13	1	26	8	11	43	16		
16	23 57	10 14	3 48	29 55	13 56	39	21 52	14	42	13		
17	24 58	11 29	5 5	13 45	51	52	36	17	40	10		
18	25 59	12 44	6 24	27 40	46 22	6	19	20	39	7		
19	27 0	14 0	7 44	11 40	41	19	1	23	38	4		
20	28 1	15 15	9 6	25 43	37	32	20 42	26	36	1		
21	29 2	16 31	10 29	9 48	13 32	22 46	20 23	5 28	27 35	18 58		
22	0 3	17 46	11 53	23 55	27	59	3	31	33	54		
23	1 4	19 2	13 18	8 2	23 23	13 19	42	35	32	51		
24	2 5	20 17	14 43	22 8	18	27	21	38	30	48		
25	3 7	21 32	16 10	6 8	14	40	0	41	29	45		
26	4 8	22 48	17 37	19 59	9	54	19 38	44	27	42		
27	5 9	24 3	19 5	3 37	5	24 8	16	47	26	39		
28	6 10	25 19	20 33	16 58	13 0	24 21	17 53	5 50	27 24	18 36		
29	7 11	26 34	22 2	0 0	12 56	35	30	53	23	33		
30	8 12	27 50	23 31	2 42	52	49	6	56	21	29		
31	9 14	29 5	25 1	25 6	12 48	25 3	16 43	6 0	27 19	18 26		

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1913

Full Moon December 13th in Π $20^{\circ} 53'$

Declination of the Planets

D	S	T	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂
			S	S	S	S	N	S	N	S	N	N
1	16	38	21 46	17 1	16 0	25 52	20 54	22 30	23 46	19 43	20 8	
2		42	55	22 15	55 22	32 54		28 40		43 42		8
3		46	22 4	42 15	53 18	16 53		26 53		42 41		9
4		50	13 18	3 15	56 13	20 53		25 57		41 40		9
5		54	21 22	16 2 8	0 52		23 24	1 5		40 40		9
6		58	28 41	16 12	2 26	52 52		21 5		40 40		9
7	17	2	22 35	19 0	16 24	3 N 11	20 51	22 19	24 9	19 39	20 9	
8		6	42 18	16 38	8 41		51 18		14 39		9	
9		10	48 36	16 54	14 2		50 16		19 38		10	
10		14	54 53	17 12	18 53		50 14		23 38		10	
11		18	59 20	9 17	31 23	1 49		12 28		37 33		10
12		22	23 4	25 17	52 26	10 49		10 33		35 35		10
13		26	8 40	18 12	28 0	48 48		8 38		35 35		11
14	17	30	23 12	20 55	18 34	28 17	20 48	22 6	24 43	19 35	20 11	
15		34	16 21	9 18	55 26	53 47		4 48		34 31		11
16		38	19 23	19 17	23 52	47 46		2 59		33 32		11
17		42	21 36	19 38	19 28	46 46		0 59		32 32		12
18		45	24 48	20 0	13 59	46 21	58 25	4 32		32 32		12
19		49	25 22	0 20	21 7	45 45		56 10		31 31		12
20		53	26 11	20 41	1 8	45 45		54 15		30 30		12
21	17	57	23 27	22 21	21 15	s 34	20 45	21 52	25 20	19 29	20 13	
22	18	1	27 30	21 20	12 0	45 45		50 26		29 29		13
23		5	27 39	21 39	17 49	44 44		47 31		28 28		14
24		9	26 48	21 57	22 40	44 44		45 36		27 27		14
25		13	25 55	22 14	26 11	43 43		43 42		26 26		14
26		17	23 23	2 22	30 28	5 43		40 47		26 26		14
27		21	21 8	22 46	28 14	42 42		38 52		25 25		15
28	18	5	23 19	23 14	23 0	26 44	20 42	21 36	25 57	19 24	20 15	
29		29	15 19	23 13	23 48	41 41		34 26	2 23		15	
30		33	12 23	23 25	19 46	41 41		32 7		23 23		15
31	18	37	23 8	23 26	23 36	14 58	20 41	21 29	26 12	19 22	20 16	

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	.82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	8935	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	.90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0009	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5695	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	35	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	61	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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EPHEMERIS OF PLUTO FOR 1914

Date	Long.	Dec.	Date	Long.	Dec.
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February 15	29° II 10'	17° N 41'	August 14	1° ☾ 44'	17° N 59'
March 17	29° II 02'	17° N 46'	September 13	2° ☾ 07'	17° N 57'
April 16	29° II 14'D	17° N 51'	October 13	2° ☾ 10'	17° N 54'
May 16	29° II 44'	17° N 56'	November 12	1° ☾ 53 R	17° N 53'
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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1914

New Moon January 26th in ♊ 5° 42'

Longitude of the Planets

D	○	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂		
	° W'	° W'	° f'	° K'	° II'	° V'	° S'	° S'	° S'	° S'	° S'	° S'	° S'	° S'	° S'	° S'	° S'	° S'	° S'	° S'		
1	10	15	0	21	26	31	7	14	12R44	25	17	16R19	6	3	27R18	18	23					
2	11	16	1	36	28	1	19	11		39	31	15	55	6	16	19						
3	12	17	2	52	29	32	1	γ	0	36	45	15	31	9	15	16						
4	13	18	4	7	1	W3	3	12	48	32	59	15	7	13	13	13						
5	14	19	5	22	2	35	24	39		28	26	12	14	43	16	11	10					
6	15	21	6	38	4	7	6	8	40	24	26	14	19	19	10	7						
7	16	22	7	53	5	40	18	55	12	20	26	41	13	56	6	23	27	8	18	4		
8	17	23	9	9	7	13	1	II	28	17	55	13	32	26	6	0						
9	18	24	10	24	8	46	14	22		13	27	9	13	9	29	5	17	57				
10	19	25	11	40	10	20	27	38		10	23	12	45	33	3	54						
11	20	26	12	55	11	54	11	S	15	7	33	12	23	36	1	51						
12	21	27	14	11	13	29	25	11		3	51	12	0	40	0	48						
13	22	28	15	26	15	4	9	Ω	20	0	28	5	11	38	43	26	58			45		
14	23	30	16	41	16	40	23	38	11	57	28	19	11	16	6	46	26	56	17	41		
15	24	31	17	57	18	16	7	η	59	54	33	10	55	50	55	38						
16	25	32	19	12	19	53	22	20		51	47	10	34	53	53	35						
17	26	33	20	28	21	30	6	≡	36	48	29	1	10	14	57	51	32					
18	27	34	21	43	23	7	20	47		46	16	9	54	7	0	50	28					
19	28	35	22	58	24	46	4	η	49	43	30	9	35	4	48	25						
20	29	36	24	14	26	25	18	43		41	44	9	17	7	46	22						
21	0	~	37	25	29	28	4	2	t	29	11	38	29	58	8	59	7	11	26	44	17	19
22	1	38	26	45	29	44	16	4		36	0	~	12	8	42	14	43	16				
23	2	39	28	0	1	~	25	29	27	34	26	8	25	18	41	13						
24	3	40	29	16	3	6	12	V3	39	32	41	8	10	21	39	9						
25	4	41	0	~	31	4	48	25	37	30	55	7	55	25	38	6						
26	5	42	1	46	6	30	8	~	21	28	1	9	7	40	28	36	3					
27	6	43	3	2	8	13	20	50		26	23	7	27	32	34	0						
28	7	44	4	17	9	57	3	κ	6	11	24	1	37	7	14	7	35	26	33	16	57	
29	8	45	5	32	11	41	15	9		23	51	7	2	39	31	54						
30	9	46	6	48	13	26	27	4		21	2	5	6	51	42	29	50					
31	10	47	8	3	15	11	8	γ	53	11	20	2	20	6	41	7	46	26	28	16	47	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1914

Full Moon January 12th in ♊ $21^{\circ} 27'$

Declination of the Planets

D	S T	⊙ S	♀ S	♂ S	♂ D S	♂ N	♂ S	♂ N	♂ S	♂ N
1	18 41	23 3	23 29	23 46	9 40	20 40	21 26	26 16	19 21	20 16
2	45	22 58	31	55	4 7	40	23	21	20	16
3	49	53	32	24	2 1 N	31	40	21	25	19
4	53	47	32	9	7 5	40	19	29	19	17
5	56	41	32	14	12 27	39	16	33	18	18
6	19 0	34	31	18	17 24	39	14	36	17	18
7	19 4	22 27	23 29	24	20 21 46	20 39	21 11	26 40	19 16	20 18
8	8	19	27	21	25 16	39	9	43	15	18
9	12	11	23	21	27 35	38	6	47	14	19
10	16	3	19	20	28 25	38	4	49	14	19
11	20	21 54	15	17	27 35	38	1	52	13	20
12	24	44	9	13	25 1	38	20 58	55	12	20
13	28	35	3	7	20 53	37	55	57	11	20
14	19 30	21 24	22 56	24	0 15 30	20 37	20 53	26 59	19 10	20 20
15	36	14	49 23	52	9 15	37	50 27	1	9	21
16	40	3	41	42	2 32	37	47	3	8	21
17	44	20 51	32	30	4 s 17	37	44	5	7	22
18	48	39	22	17	10 50	37	41	6	7	22
19	52	27	12	3	16 47	36	38	7	6	22
20	56	15	1 22	47	21 48	36	35	8	5	22
21	20 0	20 2	21 49	22	30 25 34	20 36	20 32	27 9	19 4	20 23
22	3	19 48	37	11	27 50	36	30	10	3	23
13	7	35	24 21	51	28 27	36	27	10	2	24
24	11	20	11	29	27 25	36	24	11	1	24
25	15	6	20 56	5	24 55	36	21	11	0	24
26	19	18 51	42 20	40	21 12	36	18	11	18 59	24
27	23	36	26	14	16 36	36	15	11	58	25
28	20 27	18 21	20 10	19	46 11 24	20 36	20 12	27 11	18 57	20 25
29	31	5	19 54	16	5 52	36	9	11	57	26
30	35	17 49	36 18	45	0 11	36	5	10	56	26
31	20 39	17 32	19 19 18	12	5 N 27	20 36	20 2	27 10	18 55	20 26

SIMPLIFIED SCIENTIFIC

EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1914

Eclipse of Sun February 25th in $\times$ $6^{\circ} 3'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	°	°	°	°	°	°	°	°	°	°	°
1	11 48 9	18 18	16 57	20 40	11 R 19	2 34 6	R 31	7 49	26 R 26	16 44	
2	12 49	10 34	18 44	2 8 31	18	48	23	53	25	41	
3	13 50	11 49	20 31	14 31	17 3	2	15	56	23	38	
4	14 51	13 4	22 18	26 44	16	16	8.8	0	21	34	
5	15 51	14 20	24 5	9 II 15	15	36	2	3	20	31	
6	16 52	15 35	25 53	22 9	14	44	5	56	7	18	28
7	17 53	16 50	27 40	5 27	11 14	3	58	5	52	8	10
8	18 54	18 5	29 28	19 11	13 4	12	48	14	15	22	
9	19 54	19 21	1 15	3 18	13	26	4	17	14	19	
10	20 55	20 36	3 1	17 46	13	40	43	21	12	15	
11	21 56	21 51	4 47	2 28	13	53	41	24	11	12	
12	22 56	23 6	6 32	17 17	D 13	5	7	40	28	9	9
13	23 57	24 22	8 14	2 5	13	21	D 40	31	8	6	
14	24 58	25 37	9 55	16 46	11 13	5	35	5	41	8	34
15	25 58	26 52	11 34	1 15	13	49	43	38	5	16	3
16	26 59	28 7	13 9	15 28	14 6	2	45	41	3	15	56
17	27 59	29 22	14 41	29 24	14	16	48	44	2	53	
18	29 0	0 37	16 9	13 1	15	30	51	48	0	50	
19	0 37	1 52	17 32	26 22	16	43	56	51	25	59	47
20	1 13	8 18	50 9	13 26	17	57	6	1	55	58	44
21	2 14	23 20	2 22	16 11	18 7	11	6	6	8	58	25
22	3 25	38 21	7 4	52	19	24	13	9	1	55	37
23	4 26	53 22	4 17	16 20	20	37	20	4	54	34	
24	5 38	8 22	54 29	29 22	22	51	27	8	53	31	
25	6 39	23 23	35 11	33 23	8	4	35	11	51	28	
26	7 310	38 24	8 23	30 25	18	44	14	50	25		
27	8 411	53 24	31 5	21 27	31	54	17	49	22		
28	9 413	8 24	44 17	9 11	23 8	44 7	4 9	20 25	48 15	18	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1914

Full Moon February 10th in Ω $20^{\circ} 55'$

Declination of the Planets

D	S	T	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ N	♂ S	♂ N
1	20	43	17 15	19 0	17 38	10 53	20 36	19 59	27 9	18 54	20 27
2		47	16 58	18 42	17 3	15 57	36	56	8	53	27
3		51	16 41	18 22	16 26	20 29	36	53	8	52	27
4		55	16 23	18 2	15 47	24 15	36	50	7	51	27
5		59	16 5	17 41	15 7	26 59	37	47	6	50	28
6	21	2	15 47	17 20	14 26	28 24	37	44	5	50	28
7	21	6	15 29	16 59	13 43	28 15	20 37	19 40	27 4	18 49	20 29
8		10	15 10	16 37	13 0	26 22	37	37	2	48	29
9		14	14 51	16 15	12 15	22 49	37	34	1	47	29
10		18	14 32	15 52	11 29	17 48	37	30	0	46	29
11		22	14 12	15 29	10 43	11 40	38	27	26 59	45	30
12		26	13 52	15 5	9 56	4 50	38	24	57	44	30
13		30	13 33	14 41	9 8	2 s15	38	21	56	43	30
14	21	34	13 12	14 16	8 20	9 9	20 38	19 17	26 54	18 42	20 30
15		38	12 52	13 51	7 32	15 29	39	14	53	41	31
16		42	12 31	13 26	6 44	20 52	39	11	51	41	31
17		46	12 11	13 0	5 57	24 59	39	8	49	40	31
18		50	11 50	12 34	5 11	27 36	39	5	48	39	31
19		54	11 28	12 8	4 26	28 34	40	1	46	38	32
20		58	11 7	11 41	3 42	27 54	40	18 58	44	37	32
21	22	2	10 45	11 14	3 1	25 45	20 41	18 55	26 42	18 36	20 33
22		6	10 24	10 47	2 21	22 22	41	51	41	36	33
23		9	10 2	10 19	1 45	18 0	42	48	39	35	33
24		13	9 40	9 52	1 11	12 59	42	44	37	34	33
25		17	9 18	8 23	0 41	7 31	43	41	35	33	34
26		21	8 55	8 55	0 15	1 51	43	38	33	32	34
27		25	8 33	8 26	0 N 7	3 N50	43	35	31	31	34
28	22	29	8 10	7 58	0 24	9 21	20 44	18 31	26 29	18 30	20 34

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1914

New Moon March 26th in γ $4^{\circ} 59'$

Longitude of the Planets

D	☉ ° ♈'	♀ ° ♋'	♂ ° ♊'	♂ ° ♏'	♂ ° ♏'	♂ ° ♏'	♂ ° ♏'	♂ ° ♏'	♂ ° ♏'	♂ ° ♏'	♂ ° ♏'
1	10 4	14 23	24 _R 48	28 57	11 30	8 57	7 14	9 24	25 _R 47	15 15	
2	11 4	15 38	24 43	10 8 49	32 9	10 7	25 27		46		12
3	12 4	16 53	24 28	22 48	34	23 7	37 30		45		9
4	13 5	18 8	24 4	4 4 11 59	37	36 7	49 33		44		5
5	14 5	19 23	23 32	17 26	39	49 8	2 36		43		2
6	15 5	20 38	22 53	0 5 14	41	10 2	8 16		39		42
7	16 5	21 52	22 7	13 26	11 44	10 15	8 29	9 42	25 41	14 56	
8	17 5	23 7	21 16	27 4		47	28 8	44 45		40	53
9	18 5	24 22	20 21	11 10	49	41 8	58 48		39		50
10	19 5	25 37	19 24	25 40	52	53 9	14 51		38		47
11	20 4	26 52	18 25	10 32	55	11 6	9 29	54	37		43
12	21 4	28 6	17 26	25 37	58	18 9	45 57		36		40
13	22 4	29 21	16 28	10 46	12 2	31 10	2 59		35		37
14	23 4	0 36	15 33	25 51	12 5	11 43	10 19	10 2	25 35	14 34	
15	24 4	1 50	14 42	10 43		8	55 10	36 5		34	31
16	25 3	3 5	13 54	25 14	12 12	8 10	54 8		33		27
17	26 3	4 20	13 12	9 22	15	20 11	12 10		33		24
18	27 3	5 34	12 35	23 5	19	32 11	31 13		32		21
19	28 2	6 49	12 4	6 23	23	44 11	50 16		31		18
20	29 2	8 4	11 39	19 20	26	56 12	9 18		31		15
21	0 2 9	18 11	21 1	57 57	12 30	13 8	12 29	10 21	25 30	14 12	
22	1 10	33 11	8 14	19 34		19 12	49 23		30		8
23	2 11	47 11	2 26	28 38		31 13	10 26		29		5
24	3 0	13 2	11 18	2 43		43 13	30 28		29		2
25	4 0	14 16	11 6	20 23	47	54 13	51 31		28	13 59	
26	4 59	15 31	11 17	2 13	51	14 6	14 13		33		56
27	5 58	16 45	11 33	14 1	56	17 14	35 36		28		53
28	6 58	18 0	11 54	25 50	13 1	14 28	14 57	10 38	25 27	13 49	
29	7 57	19 14	12 19	7 41		5	39 15	19 40		27	46
30	8 56	20 28	12 49	19 37	10	50 15	42 42		27		43
31	9 56	21 43	13 24	1 40	13 15	15 1	16 5	10 45	25 26	13 40	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1914

Eclipse of Moon March 12th in $m\ 21^{\circ}\ 4'$

Declination of the Planets

D	S T		☉ S	♀ S	♂ N	♂ N	♂ N	♂ S	♂ N	♂ S	♂ S	♂ N								
1	22	33	7	48	7	29	0	37	14	33	20	44	18	28	26	27	18	30	20	35
2		37	7	25	6	59	0	45	19	15		45		24		25		29		35
3		41	7	2	6	30	0	48	23	13		46		21		23		28		35
4		45	6	39	6	0	0	47	26	16		46		18		20		27		35
5		49	6	16	5	31	0	40	28	8		47		15		18		26		35
6		53	5	53	5	1	0	29	28	39		47		12		16		26		35
7	22	57	5	29	4	31	0	14	27	24	20	48	18	8	26	13	18	25	20	36
8	23	1	5	6	4	1	0	s 5	24	37		48		4		11		24		36
9		5	4	43	3	30	0	28	20	16		49		1		8		23		36
10		9	4	18	3	0	0	54	14	37		49	17	58		6		23		36
11		13	3	56	2	30	1	22	8	0		50		55		3		22		37
12		17	3	32	1	59	1	51	0	51		50		51		1		21		37
13		21	3	9	1	29	1	21	6	s23		51		48	25	58		20		57
14	23	25	2	45	0	58	2	52	13	13	20	52	17	44	25	55	18	20	20	37
15		28	2	21	0	27	3	23	19	12		53		41		53		19		37
16		32	1	58	0	N 3	3	53	23	55		53		38		50		18		37
17		36	1	34	0	34	4	22	27	4		54		35		47		17		38
18		40	1	10	1	5	4	49	28	30		55		31		44		17		38
19		44	0	47	1	35	5	14	28	13		56		28		41		16		38
20		48	0	23	2	6	5	38	26	23		56		25		38		16		38
21	23	52	0	N 1	2	37	5	59	23	15	20	57	17	22	25	34	18	15	20	38
22		56	0	25	3	7	6	18	19	7		57		18		31		14		38
23	0	0	0	48	3	38	6	34	14	16		58		15		28		13		38
24		4	1	12	4	8	6	48	8	57		59		12		24		13		38
25		8	1	35	4	38	6	59	3	21	21	0		9		21		12		38
26		12	1	59	5	9	7	8	2	N19		0		6		17		12		38
27		16	2	23	5	39	7	15	7	54		1		3		14		12		39
28	0	20	2	46	6	9	7	19	13	12	21	2	17	0	25	10	18	11	20	39
29		24	3	10	6	39	7	21	18	2		3	16	57		6		10		39
30		28	3	33	7	8	7	21	22	12		4		53		2		10		39
31	0	32	3	56	7	38	7	18	25	30	21	5	16	50	24	58	18	9	20	39

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1914

New Moon April 25th in γ $4^{\circ} 25'$

Longitude of the Planets

D	☉ ♈	♀ ♉	♂ ♊	♂ ♋	♂ ♌	♂ ♍	♂ ♎	♂ ♏	♂ ♐	♂ ♑	♂ ♒
	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒
1	10 55	22 57	14 3	13 53	13 20	15 12	16 28	10 47	25 _R 26	13 37	
2	11 54	24 11	14 45	26 20	25	23 16	51	49	26	34	
3	12 53	25 25	15 31	9 5	30	34 17	15	51	26	30	
4	13 52	26 40	16 20	22 8	35	44 17	39	53	26	27	
5	14 51	27 54	17 13	5 37	40	55 18	4	55	26	24	
6	15 50	29 8	18 8	19 31	45	16 5	18 28	57	26	21	
7	16 49	0 8 22	19 7	3 52	13 51	16 15	18 53	10 59	25 _D 26	13 18	
8	17 48	1 36	20 8	18 36	56	25 19	18	11 1	26	14	
9	18 47	2 50	21 12	3 40	14 2	35 19	43	2	26	11	
10	19 46	4 4	22 19	18 54	7	45 20	9	4	26	8	
11	20 45	5 18	23 28	4 9	13	55 20	34	6	26	5	
12	21 44	6 32	24 39	19 15	18	17 5	21 0	8	26	2	
13	22 42	7 46	25 53	4 3	24	14 21	27	9	27	12 59	
14	23 41	9 0	27 9	18 24	14 30	17 24	21 53	11 11	25 27	12 55	
15	24 40	10 14	28 26	2 18	36	33 22	19	12	27	52	
16	25 38	11 28	29 46	15 42	42	43 22	46	14	27	49	
17	26 37	12 42	1 8	28 40	48	52 23	13	15	28	46	
18	27 36	13 56	2 33	11 14	54	18 1	23 40	17	28	43	
19	28 34	15 10	3 57	23 31	15 0	9 24	8	18	29	40	
20	29 33	16 23	5 25	5 34	6	18 24	35	20	29	37	
21	0 8 31	17 37	6 54	17 27	15 13	18 27	25 3	11 21	25 30	12 33	
22	1 30	18 51	8 25	29 16	19	35 25	31	22	30	30	
23	2 28	20 5	9 58	11 3	26	44 25	59	23	31	27	
24	3 27	21 18	11 33	22 51	32	52 26	27	24	31	23	
25	4 25	22 32	13 10	4 43	38	19 0	26 56	26	32	20	
26	5 24	23 46	14 48	16 41	45	8 27	24	27	32	17	
27	6 22	24 59	16 28	28 45	52	16 27	53	28	33	14	
28	7 20	26 13	18 10	10 57	15 58	19 23	28 22	11 28	25 34	12 11	
29	8 19	27 26	19 54	23 19	16 5	31 28	51	29	35	8	
30	9 17	28 40	21 39	5 52	16 12	19 38	29 20	11 30	25 35	12 5	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1914

Full Moon April 10th in $\approx 19^{\circ} 46'$

Declination of the Planets

D	S	T	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
			N	N	S	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1	0	36	4	19	8	7	7	13	27	40	21	5	16	47	24	34	18	8	20	39
2		39	4	43	8	36	7	6	28	31		6	44		50		8		39	
3		43	5	6	9	5	6	58	27	54		7	41		46		7		39	
4		47	5	29	9	34	6	47	25	44		8	39		41		7		39	
5		51	5	52	10	3	6	35	22	4		9	36		37		6		39	
6		55	6	14	10	31	6	20	17	5		9	33		32		6		39	
7	0	59	6	37	10	59	6	4	11	1	21	10	16	30	24	28	18	5	20	39
8	1	3	7	0	11	27	5	46	4	11		11	27		23		5		39	
9		7	7	22	11	55	5	27	3	s	1	12	24		18		4		39	
10		11	7	44	12	22	5	6	10	7		13	21		13		4		39	
11		15	8	6	12	49	4	43	16	38		14	18		8		3		39	
12		19	8	28	13	16	4	19	22	4		14	16		3		3		39	
13		23	8	50	13	42	3	54	25	58		15	13	23	58		2		39	
14	1	27	9	12	14	8	3	27	23	6	21	16	16	10	23	52	18	2	20	39
15		31	9	34	14	34	2	59	28	21		17	7		47		1		39	
16		35	9	55	14	59	2	29	26	55		18	4		41		1		39	
17		39	10	17	15	24	1	58	24	3		19	2		36		1		39	
18		43	10	38	15	48	1	26	20	7		20	15	59	30		1		39	
19		46	10	59	16	13	0	53	15	25		21	57		24		0		39	
20		50	11	19	16	36	0	18	10	12		21	54		18		0		39	
21	1	54	11	40	17	0	0	N17	4	41	21	22	15	52	23	12	17	59	20	39
22		58	12	0	17	23	0	54	0	N56		23	50		6		59		39	
23	2	2	12	21	17	45	1	32	6	31		24	47		0		59		39	
24		6	12	41	18	7	2	11	11	53		25	45	22	53		59		39	
25		10	13	0	18	29	2	50	16	50		26	43		47		58		39	
26		14	13	20	18	50	3	31	21	11		26	40		40		58		39	
27		18	13	39	19	10	4	13	24	41		27	38		33		58		38	
28	2	22	13	58	19	30	4	55	27	8	21	28	15	36	22	26	17	58	20	38
29		26	14	17	19	50	5	39	28	17		29	34		20		57		38	
30	2	30	14	36	20	9	6	23	28	1	21	30	15	32	22	12	17	57	20	38

SIMPLIFIED SCIENTIFIC
EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1914

New Moon May 25th in Π $3^{\circ} 25'$

Longitude of the Planets

D	☉ ° 8'	♀ ° 8'	♂ ° 7'	♂ ° 5'	♂ ° 11'	♂ ° 11'	♂ ° 11'	♂ ° 11'	♂ ° 11'	♂ ° 11'	♂ ° 11'
1	10 16	29 53	23 26	18 40	16 19	19 45	29 50	11 31	25 36	12 1	
2	11 14	1 11 7	25 15	1 12 43	25	52	0 19	32	37	11 58	
3	12 12	2 20	27 6	15 6	32	59.0	49	32	38	55	
4	13 10	3 34	28 58	28 50	39 20	6 1	19	33	39	52	
5	14 8	4 47	0 8 53	12 56	46	13 1	48	34	40	49	
6	15 6	6 0	2 49	27 25	53	19 2	19	34	41	45	
7	16 4	7 13	4 47	12 14	17 0	20 25	2 49	11 35	25 42	11 42	
8	17 2	8 27	6 46	27 17	7	31 3	19	35	43	39	
9	18 0	9 40	8 48	12 25	15	37 3	50	36	44	36	
10	18 58	10 53	10 51	27 29	22	43 4	20	36	45	33	
11	19 56	12 6	12 55	12 18	29	49 4	51	36	46	30	
12	20 54	13 19	15 1	26 45	36	54 5	22	37	47	27	
13	21 52	14 32	17 8	10 45	44 21	0 5	53	37	48	23	
14	22 50	15 45	19 17	24 16	17 51	21 5	6 24	11 37	25 49	11 20	
15	23 48	16 58	21 27	7 18	58	10 6	55	37	51	17	
16	24 46	18 11	23 37	19 55	18 6	15 7	26	37	52	14	
17	25 43	19 24	25 48	2 12	13	20 7	58	37	53	11	
18	26 41	20 37	27 59	14 15	21	24 8	29	37	54	7	
19	27 39	21 50	0 11	26 7	28	28 9	1	37	56	4	
20	28 37	23 3	2 22	7 55	35	33 9	32	37	57	1	
21	29 34	24 16	4 33	19 43	18 43	21 36	10 4	11 37	25 58	10 58	
22	0 11 32	25 29	6 43	1 8 34	51	40 10	36	36	26 0	54	
23	1 30	26 41	8 52	13 31	58	44 11	8	36	1	51	
24	2 27	27 54	11 0	25 37	19 6	47 11	40	36	3	48	
25	3 25	29 7	13 6	7 11 53	13	51 12	13	35	4	45	
26	4 23	0 19	15 11	20 19	21	54 12	45	35	6	42	
27	5 20	1 32	17 13	2 56	29	57 13	18	34	7	39	
28	6 18	2 45	19 14	15 44	19 36	21 59	13 50	11 34	26 9	10 35	
29	7 16	3 57	21 12	28 43	44 22	2 14	23	33	10	32	
30	8 13	5 10	23 8	11 55	52	4 14	55	33	12	29	
31	9 11	6 22	25 2	25 21	19 59	22 6	15 28	11 32	26 14	10 26	

SIMPLIFIED SCIENTIFIO

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1914

Full Moon May 9th in m $18^{\circ} 0'$

Declination of the Planets

D	S T	⊙ N	♀ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N
1	2	34	14 54	20 27	7	8	26 16	21 31	15 30	22 5	17 57	20 38			
2		38	15 12		45	7	53	23 5		31	28	21 58	57		38
3		42	15 30	21	2	8	39	18 36		32	26		51	57	38
4		46	15 48		19	9	26	13 4		33	24		43	57	38
5		50	16 5		35	10	13	6 43		34	22		35	56	37
6		54	16 23		51	11	0	0 s 8		35	20		28	56	37
7	2	57	16 39	22	6	11	48	7 7	21	36	15 18	21 20	17 56	20 37	
8	3	1	16 56		20	12	36	13 49		36	17		12	56	37
9		5	17 12		34	13	23	19 43		37	15		4	56	37
10		9	17 28		47	14	11	24 21		38	13	20	55	56	37
11		13	17 44	23	0	14	58	27 17		39	11		47	56	36
12		17	17 59		12	15	45	28 18		40	9		39	56	36
13		21	18 15		23	16	32	27 27		41	8		30	56	36
14	3	25	18 29	23	33	17	18	24 58	21	41	15 7	20 21	17 56	20 36	
15		29	18 44		43	18	2	21 15		42	6		13	56	36
16		33	18 58		52	18	46	16 40		43	5		4	56	36
17		37	19 12	24	1	19	28	11 30		44	3	19	55	56	35
18		41	19 26		9	20	8	6 1		44	2		46	56	35
19		45	19 39		16	20	47	0 25		45	1		37	56	35
20		49	19 52		22	21	24	5 N 10		46	0		27	56	35
21	3	53	20 4	24	28	21	58	10 34	21	47	14 58	19 18	17 56	20 34	
22		57	20 16		33	22	30	15 37		47	57		8	56	34
23	4	1	20 28		37	23	0	20 7		48	56	18	59	56	34
24		4	20 40		41	23	27	23 51		49	56		49	56	34
25		8	20 51		44	23	52	26 34		50	55		39	56	33
26		12	21 2		46	24	14	28 1		50	54		29	56	33
27		16	21 12		47	24	33	28 3		51	53		19	57	33
28	4	20	21 22	24	48	24	50	26 36	21	51	14 53	18 9	17 57	20 33	
29		24	21 32		48	25	3	23 42		52	52	17	58	57	32
30		28	21 41		47	25	15	19 32		53	52		48	57	32
31	4	32	21 50	24	46	25	23	14 18	21	54	14 51	17 37	17 58	20 32	

Д	О	♀	♀	Д	б	4	δ	⚙	Ψ	Ω										
°	°	°	°	°	°	°	°	°	°	°										
°	°	°	°	°	°	°	°	°	°	°										
1	10	8	7	35	26	53	9	2	20	7	22	8	16	1	11R31	26	15	10	23	
2	11	5	8	47	28	41	23	0	15		10	16	34		31		17		20	
3	12	2	9	59	0	27	7	15	23		12	17	7		30		19		17	
4	13	0	11	12	2	10	21	45	30		13	17	41		29		20		14	
5	13	57	12	24	3	50	6	7	38		14	18	14		28		22		10	
6	14	55	13	36	5	28	21	15	46		15	18	47		27		24		7	
7	15	52	14	48	7	2	6	1	20	54	22	16	19	21	11	26	26	26	10	4
8	16	49	16	0	8	34	20	37	21	2		17	19	54		25		27		0
9	17	47	17	13	10	4	4	56		9		17	20	28		24		29	9	57
10	18	44	18	25	11	30	18	51	17		18	21	1		23		31		54	
11	19	41	19	37	12	53	2	21	25		18	21	35		22		33		51	
12	20	39	20	49	14	14	15	24	33	R	18	22	9		20		35		48	
13	21	36	22	0	15	31	28	4	41		17	22	43		19		37		45	
14	22	33	23	12	16	46	10	23	21	49	22	17	23	17	11	18	26	38	9	41
15	23	31	24	24	17	58	22	27		56		16	23	51		17		40		38
16	24	28	25	36	19	6	4	21	22	4		15	24	25		15		42		35
17	25	25	26	48	20	11	16	11		12		14	24	59		14		44		32
18	26	23	27	59	21	13	28	1	20		13	25	33		12		46		29	
19	27	20	29	11	22	12	9	8	56	28		11	26	8		11		48		26
20	28	17	0	23	23	7	21	59	35		10	26	42		9		50		22	
21	29	14	1	34	23	59	4	14	22	43	22	8	27	17	11	8	26	52	9	9
22	0	12	2	46	24	47	16	42		51		6	27	51		6		54		16
23	1	9	3	57	25	32	29	24		59		4	28	26		5		56		13
24	2	6	5	8	26	12	12	19	23	6		1	29	1		3		58		10
25	3	3	6	20	26	49	25	27		14	21	59	29	36		1	27	0		7
26	4	1	7	31	27	21	8	47	22		56	0	7	10		0		2		3
27	4	58	8	42	27	50	22	17		30		53	0	45	10	58		5		0
28	5	55	9	54	28	14	5	57	23	37	21	50	1	20	10	56	27	7	8	57
29	6	52	11	5	28	34	19	47		45		46	1	56		54		9		54
30	7	50	12	16	28	49	3	47	23	53	21	43	2	31	10	52	27	11	8	51

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1914

Full Moon June 8th in $\uparrow$ $16^{\circ} 49'$

Declination of the Planets

D	S	T	C	N	♀	N	♂	N	D	N	♂	N	♂	N	♂	N	♂	N		
1	4	36	21	59	24	44	25	29	8	17	21	54	14	51	17	27	17	58	20	31
2		40	22	7		41		33	1	46		55		51		16		58		31
3		44		15		37		35	4	s59		56		50		5		58		31
4		48		22		33		34	11	34		56		50	16	54		58		31
5		52		29		28		32	17	37		57		50		43		59		30
6		56		36		22		27	22	39		57		50		32		59		30
7	5	0	22	42	24	16	25	21	26	14	21	58	14	50	16	21	17	59	20	30
8		4		48		9		12	28	1		59		50		9		59		30
9		8		53		1		3	27	53	22	0		50	15	58	18	0		29
10		11		59	23	52	24	52	25	58		0		50		46		0		29
11		15	23	3		43		39	22	35		1		50		35		1		28
12		19		7		33		25	18	10		1		50		23		1		28
13		23		11		23		10	13	4		2		51		11		1		28
14	5	21	23	15	23	12	23	54	7	34	22	2	14	51	14	59	18	1	20	28
15		31		18		0		37	1	55		3		52		47		2		27
16		35		20	22	48		20	3	N43		3		52		35		2		27
17		39		22		35		1	9	11		4		53		23		3		26
18		43		24		21	22	42	14	20		4		53		11		3		26
19		47		26		7		23	18	59		5		54	13	58		4		25
20		51		27	21	52		3	22	56		5		55		46		4		25
21	5	55	23	27	21	36	21	43	25	56	22	6	14	56	13	33	18	5	20	25
22		59		27		20		22	27	44		6		56		21		5		25
23	6	3		27		4		2	28	9		7		57		8		6		24
24		7		26	20	46	20	41	27	2		7		58	12	55		6		24
25		11		25		29		21	24	25		8	15	0		42		7		23
26		15		23		10		1	20	27		8		1		29		7		23
27		19		22	19	52	19	41	15	22		9		2		16		8		22
28	6	22	23	19	19	32	19	22	9	28	22	9	15	3	12	3	18	8	20	22
29		26		16		13		3	3	3		10		4	11	50		9		22
30	6	30	23	13	18	52	18	45	3	s34	22	10	15	6	11	36	18	9	20	21

SIMPLIFIED SCIENTIFIC

EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1914

New Moon July 23rd in ♄ 29° 46'

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	°	°	°	°	°	°	°	°	°	°	°	°
	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊	♋
	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊	♋
1	8 47	13 27	29 0	17 55	24 0	21 39	3 6	10 50	27 13	8 48		
2	9 44	14 38	29 6	2 12	8	35 3	41	49	15	44		
3	10 41	15 49	29 7	16 33	16	31 4	17	47	17	41		
4	11 38	16 59	29 4	0 57	23	27 4	52	45	19	38		
5	12 35	18 10	28 56	15 17	31	23 5	27	43	22	35		
6	13 33	19 21	28 43	29 29	38	18 6	3	41	24	31		
7	14 30	20 31	28 26	13 26	24 46	21 14	6 39	10 39	27 26	8 28		
8	15 27	21 42	28 5	27 6	53	9 7	14	36	28	25		
9	16 24	22 52	27 40	10 25	25 1	4 7	50	34	30	22		
10	17 21	24 3	27 11	23 22	8 20	59 8	26	32	32	19		
11	18 19	25 13	26 40	5 59	16	53 9	2	30	35	16		
12	19 16	26 23	26 5	18 18	23	48 9	37	28	37	12		
13	20 13	27 34	25 28	0 23	31	42 10	13	26	39	9		
14	21 10	28 44	24 49	12 18	25 38	20 37	10 49	10 24	27 41	8 6		
15	22 7	29 54	24 10	24 10	45	31 11	26	21	44	3		
16	23 5	1 4	23 30	6 8 2	53	25 12	2	19	46	0		
17	24 2	2 13	22 50	17 59	26 0	19 12	38	17	48	7 57		
18	24 59	3 23	22 11	0 11 7	7	12 13	14	15	50	53		
19	25 56	4 33	21 34	12 28	14	6 13	51	12	52	50		
20	26 54	5 43	21 0	25 5	21 19	59 14	27	10	55	47		
21	27 51	6 52	20 28	8 0	26 28	19 53	15 3	10 8	27 57	7 44		
22	28 48	8 2	20 0	21 12	35	46 15	40	5	59	41		
23	29 46	9 11	19 37	4 41	42	39 16	17	3 28	1	38		
24	0 43	10 20	19 18	18 25	49	32 16	53	1	4	34		
25	1 40	11 30	19 4	2 20	56	25 17	30	9 58	6	31		
26	2 38	12 39	18 55	16 23	27 3	18 18	7	56	8	28		
27	3 35	13 48	18 52	0 32	10	11 18	44	54	10	25		
28	4 32	14 57	18 55	14 45	27 17	19 4	19 20	9 51	28 12	7 22		
29	5 30	16 6	19 4	28 58	24 18	56 19	57	49	15	19		
30	6 27	17 14	19 19	13 10	30	49 20	34	46	17	15		
31	7 25	18 23	19 41	27 18	27 37	18 41	21 12	9 40	28 19	7 12		

D	S	T	☉		♀		♂		♂		♂		♂		♂		♂		♂	
			N		N		N		S		N		S		N		S		N	
1	6	34	23	10	18	31	18	28	10	5	22	10	15	7	11	23	18	10	20	21
2		38		6	18	10		11	16	8		10		8		9		10		21
3		42		1	17	48	17	56	21	21		11		10	10	56		11		20
4		46	22	57	17	26		41	25	18		11		12		42		11		20
5		50		51	17	4		28	27	39		12		14		28		12		19
6		54		46	16	41		16	28	10		12		16		15		12		19
7	6	58	22	40	16	17	17	5	26	52	22	13	15	17	10	1	18	13	20	18
8	7	2		33	15	53	16	56	23	58		13		19	9	47		13		18
9		6		27	15	29		48	19	50		13		21		33		14		18
10		10		19	15	4		41	14	52		13		23		19		15		18
11		14		12	14	40		36	9	23		14		24		5		16		17
12		18		4	14	14		33	3	41		14		26	8	51		16		17
13		22	21	56	13	49		31	2 N	3		14		28		36		17		16
14	7	26	21	47	13	23	16	31	7	38	22	14	15	30	8	22	18	17	20	16
15		29		38	12	56		32	12	54		15		32		8		18		15
16		33		29	12	30		35	17	43		15		35	7	53		18		15
17		37		19	12	3		39	21	53		15		37		39		19		14
18		41		9	11	35		45	25	11		15		39		24		20		14
19		45	20	58	11	8		52	27	23		16		41		9		21		13
20		49		47	10	40		59	28	15		16		43	6	55		21		13
21	7	53	20	36	10	12	17	8	27	36	22	16	15	46	6	40	18	22	20	12
22		57		25	9	44		18	25	24		16		48		25		22		12
23	8	1		13	9	16		29	21	44		17		50		10		23		12
24		5		0	8	47		40	16	50		17		52	5	55		23		12
25		9	19	48	8	18		52	10	58		17		55		40		24		11
26		13		35	7	49	18	5	4	31		17		58		25		25		11
27		17		22	7	20		17	2 S	12		17	16	0		10		26		10
28	8	21	19	8	6	51	18	30	8	49	22	17	16	2	4	55	18	26	20	10
29		25	18	54	6	21		42	15	0		18		5		40		27		9
30		29		40	5	51		55	20	22		18		7		25		27		9
31	8	33	18	26	5	22	19	6	24	35	22	18	16	10	4	10	18	28	20	8

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1914

Eclipse of Sun August 21st in Ω $27^{\circ} 34'$

Longitude of the Planets

D	°	′	″	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓						
	°	′	″	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓						
1	8	22	19	31	20	8	11	21	27	43	18R	34	21	49	9	R	42	28	21	7	9
2	9	19	20	40	20	43	25	16	50		26	22	26		39		23			6	
3	10	17	21	48	21	23	9	W	57		18	23	3		37		26			3	
4	11	14	22	56	22	10	22	32	28	3	11	23	40		34		28	6		52	
5	12	12	24	4	23	2	5	W	48		9	3	24	18		32		30		56	
6	13	9	25	12	24	1	18	49	16	17	55	24	55		30		32			53	
7	14	7	26	20	25	6	1	X	33	28	22	17	47	25	33	9	27	28	34	6	50
8	15	4	27	28	26	16	14	1	28		40	26	10		25		37			47	
9	16	2	28	35	27	32	26	15	34		32	26	48		23		39			44	
10	16	59	29	43	28	54	8	T	19	40		24	27	25		20		41		40	
11	17	57	0	=50	0	Ω	20	14	46		16	28	3		18		43			37	
12	18	51	1	57	1	51	2	Σ	5	52		8	28	41		15		45		34	
13	19	52	3	4	3	27	13	58	58		1	29	19		13		47			31	
14	20	50	4	11	5	7	25	55	29	4	16	53	29	57	9	11	28	49	6	28	
15	21	47	5	18	6	51	8	II	3	10		45	0	=35		8		51		25	
16	22	45	6	24	8	38	20	26	16		37	1	13		6		53			21	
17	23	43	7	31	10	28	3	Σ	6	21		29	1	51		4		56		18	
18	24	40	8	37	12	20	16	7	27		22	2	29		2		58			15	
19	25	38	9	43	14	15	29	31	32		14	3	7	8	59	29	0			12	
20	26	36	10	49	16	12	13	Ω	15	38		6	3	45		57		2		9	
21	27	34	11	55	18	9	27	20	29	43	15	59	4	23	8	55	29	4	6	6	
22	28	32	13	0	20	8	11	η	40	48		51	5	2		53		6		2	
23	29	29	14	6	22	8	26	10	54		44	5	40		50		8	5		59	
24	Ony	27	15	11	24	7	10	=45	59		37	6	19		48		10			56	
25	1	25	16	16	26	7	25	20	0	Σ	4	29	6	57		46		12		53	
26	2	23	17	21	28	7	9	m	48	9		22	7	36		44		13		49	
27	3	21	18	26	0	m	6	24	6	14		15	8	14		42		15		46	
28	4	19	19	30	2	5	8	t	12	0	19	15	8	8	53	8	40	29	17	5	43
29	5	17	20	35	4	3	22	3	23		1	9	32		38		19			40	
30	6	15	21	39	6	0	5	W	49	28	14	54	10	11	36		21			37	
31	7	13	22	43	7	56	19	1	0	33	14	48	10	50	8	34	29	23	5	43	

Calculated for Mean Noon at Greenwich

August, 1914

Full Moon August 6th in ♊ $13^{\circ} 9'$

Declination of the Planets

D	S	T	○		♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1	8	37	18	11	4	52	19	18	27	18	22	18	16	12	3	54	18	29	20	8
2		40	17	56	4	22	19	28	28	18		18		14		39		29		8
3		44	17	40	3	52	19	38	27	31		18		17		24		30		7
4		48	17	25	3	21	19	46	25	7		18		19		8		31		7
5		52	17	9	2	51	19	53	21	23		19		22	2	53		32		6
6		56	16	53	2	21	19	59	16	40		19		25		37		32		6
7	9	0	16	36	1	50	20	3	11	18	22	19	16	27	2	22	18	33	20	5
8		4	16	19	1	20	20	5	5	36		19		29		6		33		5
9		8	16	2	0	49	20	5	0	N12		19		32	1	51		34		4
10		12	15	45	0	19	20	3	5	54		19		35		35		34		4
11		16	15	28	0	s12	19	58	11	19		19		37		20		35		3
12		20	15	10	0	42	19	51	16	19		19		40		4		36		3
13		24	14	52	1	13	19	42	20	40		19		42	0	48		37		3
14	9	28	14	33	1	43	19	30	24	17	22	19	16	45	0	33	18	37	20	3
15		32	14	15	2	14	19	15	26	51		19		47		17		38		2
16		36	13	56	2	44	18	57	28	12		19		50		1		38		2
17		40	13	37	3	15	18	36	28	6		19		52		s15		39		1
18		44	13	18	3	45	18	13	26	29		19		55		30		39		1
19		47	12	59	4	16	17	48	23	20		19		57		46		40		0
20		51	12	39	4	46	17	20	18	48		19	17	0	1	2		40		0
21	9	55	12	19	5	16	16	49	13	8	22	19	17	2	1	18	18	41	19	59
22		59	11	59	5	46	16	16	6	42		19		4		34		42		59
23	10	3	11	39	6	16	15	42	0	s10		19		6		49		43		58
24		7	11	19	6	46	15	5	7	3		19		8	2	5		43		58
25		11	10	58	7	16	14	27	13	33		19		11		21		44		58
26		15	10	38	7	45	13	47	19	16		19		13		37		44		58
27		19	10	17	8	15	13	6	23	49		19		15		53		45		57
28	10	23	9	56	8	44	12	24	26	54	22	19	17	17	3	9	18	45	19	57
29		27	9	35	9	13	11	40	28	17		19		19		25		46		56
30		31	9	13	9	42	10	56	27	55		19		21		40		46		56
31	10	35	8	52	10	11	10	11	25	55	22	19	17	23	3	56	18	47	19	55

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1914

New Moon September 19th in $\text{m}\gamma$ $25^{\circ} 41'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° $\text{m}\gamma'$	° $\text{♄}'$	° $\text{♅}'$	° $\text{♆}'$	° $\text{♇}'$	° $\text{♈}'$	° $\text{♉}'$	° $\text{♊}'$	° $\text{♋}'$	° $\text{♌}'$	° $\text{♍}'$
1	8 11	23 46	9 51	2 8	0 37	14 41	11 29	8 32	29 25	5 31	
2	9 9	24 50	11 46	15 1	42	34	12 8	30	27	27	
3	10 7	25 53	13 39	27 41	46	28	12 47	28	28	24	
4	11 5	26 56	15 31	10 8	50	22	13 26	26	30	21	
5	12 4	27 58	17 21	22 25	54	16	14 5	24	32	18	
6	13 2	29 1	19 11	4 31	58	10	14 44	22	34	14	
7	14 0	0 m 3	20 59	16 30	1 2	14 4	15 23	8 20	29 35	5 11	
8	14 58	1 4	22 46	28 24	6 13	58	16 3	19	37	8	
9	15 56	2 6	24 33	10 8	10	53	16 42	17	39	5	
10	16 55	3 7	26 17	22 6	14	47	17 21	15	40	2	
11	17 53	4 8	28 14	II 3	17	42	18 1	13	43	4 59	
12	18 52	5 9	29 44	16 9	21	37	18 41	12	44	55	
13	19 50	6 9	1 26	28 28	24	32	19 20	10	45	52	
14	20 48	7 9	3 6	11 5	1 28	13 27	20 0	8 9	29 47	4 49	
15	21 47	8 8	4 45	24 5	31	23	20 40	7	48	46	
16	22 45	9 8	6 24	7 29	34	18	21 19	6	50	43	
17	23 44	10 7	8 1	21 19	37	14	21 59	4	51	40	
18	24 43	11 5	9 37	5 34	40	10	22 39	3	53	37	
19	25 41	12 3	11 13	20 11	43	6	23 19	1	54	33	
20	26 40	13 1	12 47	5 4	46	2	23 59	0	56	30	
21	27 39	13 58	14 20	20 4	1 48	12 58	24 39	7 59	29 57	4 27	
22	28 37	14 55	15 52	5 4	51	55	25 20	57	58	24	
23	29 36	15 51	17 24	19 54	53	52	26 0	56	0 0	21	
24	0 35	16 47	18 54	4 28	56	49	26 40	55	1	17	
25	1 34	17 43	20 23	18 41	58	46	27 20	54	2	14	
26	2 33	18 38	21 52	2 32	0	43	28 1	53	3	11	
27	3 31	19 32	23 19	16 0	2	41	28 41	52	5	8	
28	4 30	20 26	24 46	29 8	4	12 39	29 22	7 51	0 6	4 5	
29	5 29	21 19	26 11	11 58	6	37	0 2	50	7	2	
30	6 28	22 12	27 35	24 32	8	12 35	0 43	7 49	0 8	3 58	

September, 1914

Eclipse of Moon September 4th in $\times 11^{\circ} 5'$

Declination of the Planets

Calculated for Mean Noon at Greenwich

D	ST	○ N	♀ S	♀ N	♂ S	♂ N	♂ S	♂ S	♂ S	♂ S	♂ S
1	10 39 8	30	10 39 9	25 22 33	22 19	17 25 4	12	18 47	19 55		
2	43 8	8	11 8 8	39 18 8	19	27	28	47	55		
3	47 7	46	11 36 7	53 13 0	19	29	44	48	54		
4	51 7	24	12 4 7	6 7 24	19	31 5	0	48	54		
5	55 7	2	12 31 6	19 1 38	19	33	15	49	53		
6	58 6	40	12 59 5	32 4 N 8	19	35	31	49	53		
7	11 2 6	18	13 26 4	45 9 40	22 18	17 36 5	47	18 50	19 53		
8	6 5	55	13 53 3	58 14 49	18	38 6	3	50	53		
9	10 5	33	14 19 3	10 19 25	18	39	18	51	52		
10	14 5	10	14 46 2	23 23 15	18	40	34	51	52		
11	18 4	47	15 12 1	37 26 8	18	42	50	52	51		
12	22 4	24	15 37 0	50 27 53	18	43 7	5	52	51		
13	26 4	2	16 3 0	4 28 18	18	45	21	53	51		
14	11 30 3	39	16 28 0	s42 27 17	22 18	17 47 7	37	18 53	19 51		
15	34 3	15	16 53 1	28 24 46	18	48	52	54	50		
16	38 2	52	17 17 2	13 20 50	18	49 8	8	54	50		
17	42 2	29	17 41 2	58 15 59	18	50	23	54	49		
18	46 2	6	18 5 3	43 9 30	18	52	39	54	49		
19	50 1	43	18 28 4	27 2 41	18	53	54	55	49		
20	54 1	19	18 51 5	11 4 s22	18	54 9	9	55	49		
21	11 58 0	56	19 14 5	54 11 15	22 17	17 55 9	25	18 56	19 48		
22	12 2 0	33	19 36 6	36 17 28	17	55	40	56	48		
23	5 0	9	19 58 7	18 22 34	17	56	55	56	48		
24	9 0	s14	20 19 8	0 26 11	17	57 10	11	56	48		
25	13 0	37	20 40 8	40 28 3	17	58	26	57	47		
26	17 1	1	21 1 9	20 28 6	17	58	41	57	47		
27	21 1	24	21 21 10	0 26 27	17	59	56	57	47		
28	12 25 1	48	21 41 10	39 23 23	22 17	17 59 11	11 11	18 57	19 47		
29	29 2	11	22 0 11	17 19 14	17 18	0	26	58	46		
30	12 33 2	34	22 19 11	54 14 18	22 17	18 1 11	40	18 58	19 46		

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1914

New Moon October 19th in $\approx 25^\circ 15'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
1	7 27	23 4	28 59	6 55	2 9	12R33	1 24	7 R48	0 9	3 55		
2	8 26	23 55	0m21	19 7	11	32 2	4 47	10 47	11 49	46 43	39	
3	9 25	24 46	1 42	1 7	11	30 2	45 47	12 46	13 43	39		
4	10 24	25 36	3 2	13 10	14	29 3	26 46	12 46	13 43	39		
5	11 23	26 25	4 20	25 4	15	28 4	7 45	13 43	14 39			
6	12 23	27 13	5 38	6 8	56	16	28 4	48 45	14 39			
7	13 22	28 1	6 54	18 47	2	17	12 27	5 29	7 44	0 15	3 36	
8	14 21	28 48	8 8	0 II	39	17	27 6	10 44	16 16	33		
9	15 20	29 34	9 21	12 37	18	27 6	51 43	17 30	18 27	23		
10	16 20	0 19	10 33	24 42	19	D27	7 32	43 18	20 17			
11	17 19	1 3	11 42	6 58	19	27 8	14 42	18 23	19 20	17		
12	18 18	1 47	12 50	19 30	20	28 8	55 42	19 20	17			
13	19 18	2 29	13 56	2 23	20	28 9	36 42	20 14	21 11	7		
14	20 17	3 10	14 59	15 40	2	20	12 29	10 18	7 42	0 21	3 14	
15	21 17	3 50	16 0	29 24	20	31 10	59 41	21 22	23 4	1		
16	22 16	4 30	16 58	13m36	R20	32 11	41 41	22 23	24 58	55		
17	23 16	5 8	17 54	28 15	20	33 12	23 41	23 24	25 52	48		
18	24 15	5 44	18 46	13≈16	20	35 13	4 41	23 24	25 52	48		
19	25 15	6 20	19 34	28 30	19	37 13	46 D41	24 2	25 52	48		
20	26 15	6 54	20 19	13m48	19	39 14	28 41	24 2	25 52	48		
21	27 14	7 27	20 59	28 57	2	18	12 41	15 10	7 41	0 25	2 52	
22	28 14	7 58	21 34	13 49	17	44 15	52 42	25 26	26 39	36		
23	29 14	8 28	22 4	28 17	17	47 16	34 42	26 39	27 33			
24	0m14	8 57	22 28	12v316	16	49 17	16 42	26 39	27 33			
25	1 14	9 23	22 45	25 47	14	52 17	58 42	26 39	27 33			
26	2 13	9 49	22 56	8 52	13	56 18	40 43	26 39	27 33			
27	3 13	10 12	22 59	21 35	12	59 19	22 43	27 33	28 29	26		
28	4 13	10 34	22R54	4 8	0	2	11 13	3 20	4 7	44	0 27	2 29
29	5 13	10 53	22 40	16 11	11	9 7	20 47	44 27	27 23	20		
30	6 13	11 11	22 16	28 13	8	11 21	29 45	27 23	20			
31	7 13	11 27	21 44	10 7	9	2	6 13	15 22	12 7	46	0 27	2 20

Calculated for Mean Noon at Greenwich

October, 1914

Full Moon October 4th in γ $10^{\circ} 24'$

Declination of the Planets

D	S	T	○ S	♀ S	♂ S	Δ S	♂ N	Σ S	♂ S	♂ S	Ψ N									
1	12	37	2	58	22	37	12	31	8	53	22	17	18	1	11	55	18	58	19	46
2		41	3	21		55	13	7	3	12		17		1	12	10		58		46
3		45	3	44	23	13	13	43	2	N32		17		2		24		58		45
4		49	4	8		29	14	16	8	7		17		2		39		58		45
5		53	4	31		46	14	49	13	22		16		2		53		59		45
6		57	4	54	24	2	15	21	18	7		16		2	13	8		59		45
7	13	1	5	17	24	17	15	53	22	10	22	16	18	2	13	22	18	59	19	44
8		5	5	40		32	16	23	25	19		16		2		36		59		44
9		9	6	3		47	16	53	27	23		16		2		51		59		44
10		12	6	26	25	0	17	21	28	12		16		2	14	5		59		44
11		16	6	48		14	17	48	27	38		16		2		19		59		44
12		20	7	11		27	18	14	25	40		16		2		32		59		44
13		24	7	34		39	18	39	22	21		16		1		46	19	0		43
14	13	28	7	56	25	51	19	2	17	46	22	16	18	1	15	0	19	0	19	43
15		32	8	18	26	2	19	24	12	9		16		1		13		0		43
16		36	8	41		13	19	44	5	44		16		1		27		0		43
17		40	9	3		23	20	3	1	S10		16		0		40		0		43
18		44	9	25		32	20	21	8	10		16	17	59		53		0		43
19		48	9	47		41	20	36	14	48		16		58	16	7	18	59		42
20		52	10	8		50	20	50	20	32		16		58		20		59		42
21	13	56	10	30	26	58	21	1	24	53	22	16	17	57	16	33	18	59	19	42
22	14	0	10	51	27	5	21	11	27	28		16		56		45		59		42
23		4	11	13		12	21	18	28	6		16		55		58		59		42
24		8	11	34		18	21	22	26	53		16		55	17	11		59		42
25		12	11	55		23	21	24	24	7		16		54		23		59		42
26		16	12	15		28	21	22	20	10		16		53		35		59		42
27		20	12	36		32	21	18	15	22		16		51		47		59		42
28	14	23	12	56	27	35	21	10	10	4	22	16	17	50	17	59	18	59	19	42
29		27	13	16		38	20	58	4	28		16		49	18	11		58		42
30		31	13	36		40	20	42	1	N12		16		48		23		58		42
31	14	35	13	56	27	42	20	22	6	46	22	16	17	47	18	35	18	58	19	42

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1914

New Moon November 17th in $\mathfrak{m}$ 24° $18'$

Longitude of the Planets

D	☉ ° m'	♀ ° f'	♂ ° m'	♂ ° r'	♂ ° s'	♂ ° w'	♂ ° m'	♂ ° w'	♂ ° s'	♂ ° r'
1	8 13	11 41	21R 2	22 1	2 R 4	13 19	22 54	7 46	0 R 27	2 17
2	9 13	11 52	20 10	3 8 53	2	24 23	37	47	27	13
3	10 13	12 2	19 11	15 45	0	29 24	19	48	27	10
4	11 13	12 9	18 3	27 39	1 58	34 25	2	49	27	7
5	12 13	12 14	16 50	9 II 36	56	39 25	45	50	27	4
6	13 14	12 17	15 32	21 38	53	44 26	27	50	27	1
7	14 14	12 17	14 13	3 54 47	1 51	13 49	27 10	7 51	0 27	1 58
8	15 14	12R 15	12 55	16 6	48	55 27	53	53	27	54
9	16 14	12 11	11 39	28 37	46 14	1 28	36	54	27	51
10	17 15	12 4	10 30	11 26	43	7 29	19	55	27	48
11	18 15	11 54	9 28	24 34	40	13 0	2	56	26	45
12	19 15	11 43	8 35	8 m 8	37	19 0	45	57	26	42
13	20 16	11 28	7 54	22 8	34	26 1	29	59	26	39
14	21 16	11 12	7 24	6 35	1 31	14 32	2 12	8 0	0 25	1 35
15	22 17	10 53	7 5	21 26	28	39 2	55	1	25	32
16	23 17	10 32	6 59	6 m 36	25	46 3	38	3	25	29
17	24 18	10 8	7 D 3	21 54	21	53 4	22	4	24	26
18	25 18	9 43	7 18	7 10	18 15	0 5	5	6	24	23
19	26 19	9 16	7 42	22 12	14	8 5	49	7	23	20
20	27 19	8 47	8 16	6 50	11	15 6	33	9	23	17
21	28 20	8 16	8 57	21 0	1 7	15 23	7 16	8 11	0 22	1 13
22	29 21	7 43	9 45	4 40	3	31 8	0	12	21	10
23	0 21	7 10	10 39	17 50	0 59	39 8	44	14	21	7
24	1 22	6 35	11 39	0 35	56	47 9	27	16	20	4
25	2 23	6 0	12 44	12 59	52	56 10	11	18	19	1
26	3 23	5 24	13 53	25 8	48 16	4 10	55	20	19 0	59
27	4 24	4 47	15 5	7 6	43	13 11	39	22	18	54
28	5 25	4 11	16 20	18 58	0 39	16 21	12 23	8 24	0 17	0 51
29	6 26	3 34	17 38	0 8 48	35	30 13	7	26	16	48
30	7 27	2 59	18 58	12 40	0 31	16 39	13 51	8 28	0 15	0 45

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1914

Full Moon November 2nd in $8^{\circ} 13'$

Declination of the Planets

D	ST	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ S	♂ S	♂ S
1	14 39	14 15	27 42	19 58	12 4	22 16	17 45	18 46	18 58	19 42
2	43	14 35	42 19	30 16	56	16	43	57	58	42
3	47	14 54	42 18	57 21	8	16	42	19 8	57	42
4	51	15 12	40 18	21 24	31	16	40	19	57	42
5	55	15 31	38 17	42 26	50	16	39	30	57	42
6	59	15 49	35 17	0 27	56	16	38	41	57	42
7	15 3	16 7	27 31	16 17	27 42	22 16	17 36	19 51	18 56	19 42
8	7	16 25	26 15	34 26	7	16	34	20 2	56	42
9	11	16 42	20 14	51 23	12	16	32	12	56	42
10	15	17 0	13 14	12 19	7	16	30	22	56	42
11	19	17 17	6 13	35 14	0	16	29	32	55	42
12	23	17 33	26 57	13 3	8 4	16	27	41	55	42
13	27	17 49	48 12	36 1	34	16	25	51	54	42
14	15 30	18 5	26 37	12 15	5 s 12	22 16	17 23	21 0	18 54	19 42
15	34	18 21	26 11	59 11	53	16	21	9	54	42
16	38	18 36	13 11	49 17	59	16	18	18	54	42
17	42	18 51	0 11	44 23	0	16	16	27	53	42
18	46	19 6	25 45	11 44	26 26	16	14	35	53	42
19	50	19 20	30 11	49 27	54	16	12	43	52	42
20	54	19 34	13 11	58 27	22	16	9	52	52	42
21	15 58	19 48	24 56	12 10	25 2	22 16	17 7	21 59	18 51	19 43
22	16 2	20 1	38 12	26 21	18	16	5	22 7	51	43
23	6	20 14	19 12	45 16	37	17	2	15	50	43
24	10	20 27	23 59	13 6	11 20	17 16	59	22	50	43
25	14	20 39	39 13	28 5	44	17	57	29	49	43
26	18	20 51	18 13	53 0	4	17	55	36	49	43
27	22	21 2	22 56	14 18	5 N 32	17	52	42	48	44
28	16 26	21 13	22 34	14 45	10 52	22 17	16 50	22 49	18 48	19 44
29	30	21 24	12 15	12 15	49	17	47	55	47	44
30	16 34	21 34	21 50	15 40	20 10	22 17	16 44	23 1	18 46	19 44

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1914

New Moon December 17th in $\uparrow$ $24^{\circ} 43'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	8 27	2 R23	20 20	24 34	0 R26	16 48	14 36	8 30	0 R15	0 41		
2	9 28	1 49	21 43	6 II 34	22	58	15 20	32	14	38		
3	10 29	1 16	23 8	18 39	17	17 7	16 4	34	13	35		
4	11 30	0 44	24 34	0 II 52	13	17	16 49	36	12	32		
5	12 31	0 14	26 1	13 12	8	26	17 33	39	11	29		
6	13 32	m 45	27 29	25 41	4	36	18 17	41	10	25		
7	14 33	29 19	28 57	8 Ω 21	29 59	17 46	19 2	8 43	0 9	0 22		
8	15 33	28 54	0 † 26	21 14	II 54	56	19 46	46	8	19		
9	16 34	28 32	1 56	4 m 23	50	18 6	20 31	48	6	16		
10	17 35	28 12	3 26	17 51	45	16	21 16	51	5	13		
11	18 36	27 54	4 57	1 = 40	40	27	22 0	53	4	10		
12	19 37	27 39	6 28	15 51	35	37	22 45	56	3	6		
13	20 38	27 26	7 59	0 m 23	30	48	23 30	58	2	3		
14	21 40	27 15	9 30	15 12	29 25	18 59	24 15	9 1	0 0	0 0		
15	22 41	27 7	11 2	0 † 13	21	19 10	25 0	3 29	59	29 57		
16	23 42	27 2	12 34	15 15	16	20	25 45	6 II 58	54	54		
17	24 43	26 59	14 6	0 ♄ 9	11	31	26 30	9	57	51		
18	25 44	26 D 59	15 38	14 45	6	43	27 15	12	55	47		
19	26 45	27 1	17 11	28 57	1	54	28 0	14	54	44		
20	27 46	27 5	18 43	12 = 42	28 56	20 5	28 45	17	53	41		
21	28 47	27 12	20 16	25 59	28 51	20 17	29 30	9 20	29 51	29 38		
22	29 48	27 21	21 49	8 ♄ 50	46	28 0	♄ 15	23	50	35		
23	30 ♄ 49	27 32	23 22	21 19	41	40	1 1	26	48	32		
24	1 51	27 45	24 56	3 ♄ 31	36	52	1 46	29	47	28		
25	2 52	28 1	26 30	15 30	31	21 3	2 31	32	46	25		
26	3 53	28 18	28 4	27 23	26	15	3 17	35	44	22		
27	4 54	28 38	29 38	9 8 13	21	27	4 2	38	43	19		
28	5 55	28 59	1 ♄ 12	21 6	28 16	21 39	4 48	9 41	29 41	29 15		
29	6 56	29 22	2 47	3 II 4	11	52	5 33	44	40	12		
30	7 57	29 48	4 22	15 9	6	22 4	6 19	47	38	9		
31	8 59	0 † 15	5 57	27 25	28 2	22 16	7 5	9 50	29 36	29 6		

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1914

Full Moon December 2nd in Π $9^{\circ} 28'$

Declination of the Planets

D	S	T	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ S	♂ S	♂ S	♂ N	
1	16	38	21 44	21 28	16 8	23 44	22 17	16 41	23 7	18 46	19 44	44	
2		41		53	6 16	36 26	18 17		38	12	46	44	
3		45	22 2	20 44	17 4	27 41	17		35	17	45	45	
4		49		10	22 17	32 27	44 17		32	23	44	45	
5		53		19	1 17	59 26	25 17		29	27	43	45	
6		57		26	19 41	18 26	23 46	17		26	32	43	45
7	17	1	22 33	19 21	18 53	19 56	22 17	16 23	23 36	18 42	19 46	46	
8		5		40	1 19	19 15	7 17		20	40	42	46	
9		9		47	18 43	19 45	9 30	18		17	44	41	46
10		13		52	26 20	9 3	20 13		14	48	40	46	
11		17		58	9 20	33 3	s 9 18		10	51	39	47	
12		21	23 2	17 53	20 57	9 37	18		7	54	39	47	
13		25		7	39 21	19 15	45 18		3	57	38	47	
14	17	29	23 11	17 25	21 40	21 5	22 18	16 0	24 0	18 38	19 47	47	
15		33		15	13 22	1 25	8 18	15 57		2	37	48	
16		37		18	1 22	20 27	26 18		53	4	36	48	
17		41		21	16 51	22 38	27 45	18		50	6	35	48
18		45		23	42 22	55 26	7 18		46	7	35	48	
19		48		25	33 23	12 22	49 18		42	9	34	49	
20		52		26	26 23	27 18	19 18		38	10	33	49	
21	17	50	23 27	16 20	23 40	13 3	22 18	15 35	24 11	18 32	19 49	49	
22	18	0		27	15 23	53 7	24 18		31	11	32	49	
23		4		27	10 24	5 1	36 18		28	11	31	50	
24		8		26	7 24	15 4	N 6 18		24	11	30	50	
25		12		25	4 24	24 9	34 18		20	11	29	51	
26		16		24	3 24	31 14	38 18		16	11	28	51	
27		20		22	2 24	38 19	8 19		12	10	27	51	
28	18	24	23 19	16 2	24 43	22 55	22 19	15 8	24 9	18 27	19 51	51	
29		28		16	2 24	47 25	45 19		4	7	26	52	
30		32		13	4 24	49 27	28 19		0	6	25	52	
31	18	36	23 9	16 6	24 50	27 51	22 19	14 56	24 4	18 24	19 52	52	

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	1584	13802	10792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	1584	3730	0756	07	63	6798	09	41	62	52	3795	82
2	8573	3660	0720	8983	45	84	5997	30	53	44	88	75
3	6812	3590	0685	59	28	69	85	20	44	36	80	68
4	5563	3522	0649	8935	10	55	73	10	35	28	73	62
5	24594	13454	10614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	3802	3388	0580	8888	74	26	49	5289	17	12	59	49
7	3133	3323	0546	65	57	12	37	79	08	04	52	42
8	2553	3258	0511	42	39	6698	25	69	4699	4196	45	36
9	2041	3195	0478	19	22	84	13	59	90	88	38	29
10	21584	13133	10444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	1170	3071	0411	73	7587	56	5890	39	73	72	23	16
12	0792	3010	0378	51	70	42	78	29	64	64	16	10
13	0444	2950	0345	28	52	28	66	19	55	56	09	03
14	0122	2891	0313	06	35	14	55	09	46	49	02	3297
15	19823	12833	10280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	9542	2775	0248	61	01	6587	32	89	29	33	88	84
17	9279	2719	0216	39	7484	73	20	79	20	25	81	78
18	9031	2663	0185	17	67	59	09	69	11	17	74	71
19	8796	2607	0153	8595	51	46	5797	59	03	09	67	65
20	18573	12553	10122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	8361	2499	0091	52	17	19	74	39	85	4094	53	52
22	8159	2445	0061	30	01	05	63	29	77	86	46	46
23	7966	2393	0030	09	7384	6492	52	20	68	79	39	39
24	7781	2341	10000	8487	68	78	40	10	59	71	32	33
25	17604	12289	09970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	7434	2239	9940	45	35	51	18	5090	42	55	18	20
27	7270	2188	9910	24	18	38	06	81	34	48	11	14
28	7112	2139	9881	03	02	25	5695	71	25	40	04	08
29	6960	2090	9852	8382	7286	12	84	61	16	32	3597	01
30	16812	12041	09823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	6670	1993	9794	41	54	85	62	42	4499	17	83	89
32	6532	1946	9765	21	38	72	51	32	91	10	77	83
33	6398	1899	9737	00	22	59	40	23	82	02	70	76
34	6269	1852	9708	8279	06	46	29	13	74	3995	63	70
35	16143	11806	09680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	6021	1761	9652	39	74	20	07	4994	57	79	49	57
37	5902	1716	9625	19	59	07	5596	84	49	72	42	51
38	5786	1671	9597	8199	43	6294	85	75	40	64	35	45
39	5673	1627	9570	79	28	82	74	65	32	57	29	39
40	15563	11584	09542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	5456	1540	9515	40	7097	56	52	47	15	42	15	26
42	5351	1498	9488	20	81	43	41	37	07	34	08	20
43	5249	1455	9462	01	66	31	31	28	4399	27	01	14
44	5149	1413	9435	8081	50	18	20	18	90	19	3495	08
45	15051	11372	09409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	4956	1331	9383	43	20	6193	5498	00	74	05	81	3096
47	4863	1290	9356	23	05	80	88	4890	65	3897	75	89
48	4771	1249	9330	04	6990	68	77	81	57	90	68	83
49	4682	1209	9305	7985	75	55	66	72	49	82	61	77
50	14594	11170	09279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	4508	1130	9254	47	45	31	45	53	33	68	48	65
52	4424	1091	9228	29	30	18	35	44	24	60	41	59
53	4341	1053	9203	10	15	06	24	35	16	53	35	53
54	4260	1015	9178	7891	00	6094	14	26	08	46	28	47
55	14180	10977	09153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	4102	0939	9128	54	71	69	5393	08	4292	31	15	35
57	4025	0902	9104	36	56	57	82	4799	84	24	08	28
58	3949	0865	9079	18	41	45	72	89	76	17	01	22
59	3875	0828	9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	35	36	56	93	46	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0990	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0351	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	45	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1415	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	64	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0398	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2598	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

THE WEB OF DESTINY

By MAX HEINDEL

*Sixteen of the ninety-seven monthly lessons sent out
to his students by this illumined teacher.
They are the fruitage of true esoteric research.*

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Function of Desire; Color Effects of Emotion in Assemblages of People—Isolating Effect of Worry; Effects of War upon Desire Body—Vital Body as Affected by Detonations of Big Guns; Nature of Ether Atoms—Necessity of Poise; Effects of Remorse—Dangers of Excessive Bathing.

III

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EPHEMERIS OF PLUTO FOR 1915

Date	Long.	Dec.	Date	Long.	Dec.
January 11	0° 54' 47"	17° N 55'	July 10	2° 54' 5"	18° N 17'
February 10	0° 54' 18"	17° N 59'	August 9	2° 54' 44"	18° N 16'
March 12	0° 54' 6"	18° N 4'	September 8	3° 54' 9"	18° N 14'
April 11	0° 54' 15"	18° N 9'	October 8	3° 54' 16"	18° N 12'
May 11	0° 54' 42"	18° N 13'	November 7	3° 54' 3"	18° N 11'
June 10	1° 54' 21"	18° N 16'	December 7	2° 54' 35"	18° N 11'

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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January 1915

New Moon January 15th in ϖ $24^{\circ} 16'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′
1	10	0	0	43	7	33	9	50	27 _R	57	22	29	7	50	9	53	29 _R	35	29	3
2	11	1	1	13	9	9	22	27	52		41	8	36		56		33		0	
3	12	2	1	45	10	45	5	14	47		54	9	22		59		32	28	57	
4	13	3	2	18	12	22	18	13	43	23	6	10	8	10	3	30			53	
5	14	4	2	53	13	59	1	23	38		19	10	53		6	28			50	
6	15	5	3	29	15	36	14	46	33		32	11	39		9	27			47	
7	16	7	4	7	17	14	28	21	27	29	23	45	12	25	10	12	29	25	28	44
8	17	8	4	45	18	52	12	9	24		58	13	11		16		24		41	
9	18	9	5	25	20	31	26	12	20	24	11	13	57		19		22		38	
10	19	10	6	7	22	10	10	28	15		24	14	43		22		20		34	
11	20	11	6	49	23	50	24	54	11		37	15	29		26		19		31	
12	21	12	7	32	25	29	9	27	7		50	16	15		29		17		28	
13	22	13	8	17	27	10	24	1	2	25	3	17	2		32		15		25	
14	23	15	9	2	28	51	8	30	26	58	25	16	17	48	10	36	29	14	28	21
15	24	16	9	49	0	32	22	47	54		30	18	34		39		12		18	
16	25	17	10	36	2	13	6	47	50		43	19	20		42		10		15	
17	26	18	11	24	3	55	20	25	46		57	20	7		46		8		12	
18	27	19	12	13	5	37	3	41	42	26	10	20	53		49		7		9	
19	28	20	13	3	7	20	16	34	38		24	21	89		53		5		6	
20	29	21	13	54	9	2	29	7	34		37	22	26		56		3		2	
21	0	22	14	45	10	45	11	22	26	31	26	51	23	12	11	0	29	2	27	59
22	1	23	15	37	12	27	23	25	27	27	5	23	59		3		0		56	
23	2	25	16	30	14	9	5	20	24		19	24	45		7		28	58	53	
24	3	26	17	24	15	51	17	12	20		32	25	32		10		57		50	
25	4	27	18	18	17	32	29	6	17		46	26	18		13		55		47	
26	5	28	19	12	19	13	11	5	14	28	0	27	5		17		53		43	
27	6	28	20	8	20	52	23	15	10		14	27	51		20		52		40	
28	7	29	21	4	22	30	5	37	26	7	28	28	38	11	24	28	50	27	37	
29	8	30	22	0	24	7	18	14		4	42	29	25		27		48		34	
30	9	31	22	57	25	41	1	7		1	56	0	11		31		47		31	
31	10	32	23	55	27	12	14	15	25	58	29	10	0	58	11	34	28	45	27	28

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January 1915

Full Moon January 1st in ϖ $10^{\circ} 0'$

Full Moon January 31st in Ω $10^{\circ} 32'$

Declination of the Planets

D	S	T	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ S	♂ S	♂ S	♂ S	♂ S	♂ S	♂ S	♂ S	♂ S	♂ S	♂ S	♂ S
1	18	40	23	4	16	8	24	49	26	51	22	19	14	52	24	2	18	23	19	53
2		44		0	12	24	47	24	28		19		48	23	59		22			53
3		48	22	54	16	24	44	20	50		19		44		57		21			53
4		52		49	20	24	39	16	8		19		40		54		21			53
5		55		42	25	24	33	10	38		19		36		51		20			54
6		59		36	30	24	25	4	33		19		31		47		19			54
7	19	3	22	29	16	35	24	16	1 s 48	22	19	14	27	23	43	18	18	19	55	
8		7		21	41	24	5	8	11		19		21		39		17			55
9		11		13	48	23	53	14	15		19		18		35		16			55
10		15		5	54	23	39	19	40		19		14		31		15			55
11		19	21	56	17	1	23	24	24	1	19		10		26		14			56
12		23		47	8	23	7	26	53		19		5		21		13			56
13		27		37	15	22	48	27	56		20		1		15		12			57
14	19	31	21	27	17	22	22	28	27	3	22	20	13	56	23	10	18	12	19	57
15		35		16	30	22	6	24	23		20		52		4		11			57
16		39		5	37	21	43	20	18		20		47	22	58		10			57
17		43	20	54	45	21	18	15	14		20		43		51		9			58
18		47		42	53	20	51	9	34		20		38		45		8			58
19		51		30	18	0	20	23	3	40	20		33		38		7			59
20		55		18	8	19	54	2	N 13		20		28		31		6			59
21	19	59	20	5	18	16	19	23	7	53	22	20	13	24	22	23	18	5	20	0
22	20	3	19	52		23	18	51	13	10		20		20		16		4		0
23		6		38		31	18	17	17	54		20		15		8		3		0
24		10		24		38	17	42	21	56		20		10		0		2		0
25		14		10		45	17	5	25	4		20		5	21	51		1		1
26		18	18	55		52	16	28	27	9		20		0		43		0		1
27		22		40		59	15	49	27	58		21	12	55		34	17	59		2
28	20	26	18	24	19	6	15	10	27	24	22	21	12	50	21	25	17	58	20	2
29		30		9		12	14	29	25	26		21		46		15		57		3
30		34	17	53		19	13	49	22	7		21		41		6		56		3
31	20	38	17	36	19	25	13	7	17	38	22	21	12	36	20	56	17	55	20	3

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1915

Eclipse of Sun February 14th in $\approx 24^{\circ} 43'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
1	11 33	24 53	28 40	27 39	25R56	29 24	1 45	11 38	28R43	27 24		
2	12 34	25 51	0 35	11 15	53	38 2	31	41	42	21		
3	13 35	26 50	1 25	25 3	51	52 3	18	45	40	18		
4	14 36	27 50	2 40	8 59	48 0	3 7	4	5	48	38	15	
5	15 36	28 50	3 49	23 3	46	21 4	52	52	37	12		
6	16 37	29 50	4 52	7 11	44	35 5	39	55	35	8		
7	17 38	0 51	5 47	21 23	25 42	0 49	6 26	11 59	28 34	27 5		
8	18 39	1 52	6 34	5 35	40 1	4 7	12 12	2	32	2		
9	19 40	2 53	7 12	19 45	38	18 7	59	6	30	26 59		
10	20 40	3 55	7 40	3 51	36	32 8	46	9	29	56		
11	21 41	4 57	7 59	17 49	34	47 9	33	13	27	53		
12	22 42	6 0	8 7	1 37	33 2	1 10	20	16	26	49		
13	23 42	7 2	8 R 4	15 12	31	15 11	7	20	24	46		
14	24 43	8 5	7 51	28 32	25 30	2 30	11 54	12 23	28 23	26 43		
15	25 44	9 9	7 28	11 35	28	44 12	41	27	21	40		
16	26 44	10 12	6 55	24 21	27	59 13	28	30	20	37		
17	27 45	11 16	6 13	6 51	26 3	13 14	15	33	18	34		
18	28 45	12 20	5 23	19 7	25	28 15	2	37	17	30		
19	29 46	13 25	4 27	1 8 11	25	42 15	50	40	16	27		
20	0 46	14 29	3 25	13 7	24	56 16	37	44	14	24		
21	1 47	15 34	2 21	25 0	25 23	4 11	17 24	12 47	28 13	26 21		
22	2 47	16 39	1 14	6 53	23	25 18	11	50	12	18		
23	3 48	17 45	0 8	18 53	22	40 18	58	54	10	15		
24	4 48	18 50	29 4	1 2	22	54 19	45	57	9	11		
25	5 48	19 56	28 3	13 26	22 5	9 20	32	13 0	8	8		
26	6 49	21 2	27 5	26 8	22	23 21	19	4	6	5		
27	7 49	22 8	26 14	9 10	D 22	38 22	6	7	5	2		
28	8 49	23 15	25 28	22 33	25 22	5 52	22 54	13 10	28 4	25 59		

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS PLACES

Calculated for Mean Noon at Greenwich

February, 1915

No Full Moon in February

Declination of the Planets

D	S	T	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ S	♂ S	♂ N
1	20	42	17 20	19 30	12 26	12 12	22 21	12 31	20 46	17 54	20 4
2		46	17 3	36 11	45 6	6	21	26	35	53	4
3		50	16 45	41 11	5 0	s 21	21	21	25	52	4
4		54	16 28	46 10	25 6	51	21	16	14	51	4
5		58	16 10	50 9	47 13	3	22	11	3	50	5
6	21	2	15 52	54 9	10 18	37	22	6	19 52	50	5
7	21	6	15 33	19 58	8 35	23 11	22 22	12 1	19 41	17 49	20 6
8		10	15 15	20 1 8	3 26	22	22 11	56	29	48	6
9		13	14 56	4 7	34 27	54	22	51	17	47	6
10		17	14 36	7 7	8 27	36	22	46	5	46	6
11		21	14 17	9 6	46 25	32	22	41	18 53	45	7
12		25	13 57	11 6	28 21	59	22	35	40	44	7
13		29	13 37	12 6	14 17	17	23	30	28	43	8
14	21	33	13 17	20 13 6	5 11	49	22 23	11 25	18 15	17 42	20 8
15		37	12 57	13 6	1 5	57	23	20	2	41	8
16		41	12 36	13 6	2 0	N 2	23	15	17 49	40	8
17		45	12 16	12 6	7 5	52	23	10	35	39	9
18		49	11 55	11 6	17 11	22	23	5	22	38	9
19		53	11 33	10 6	31 16	22	24 10	59	8	37	10
20		57	11 12	8 6	49 20	41	24	54	16 54	36	10
21	22	1	10 51	20 5 7	10 24	9	22 24	10 49	16 40	17 35	20 10
22		5	10 29	2 7	33 26	35	24	43	25	34	10
23		9	10 7	19 59 7	58 27	51	24	38	11	33	11
24		13	9 45	55 8	25 27	48	24	33	15 56	32	11
25		17	9 23	50 8	52 26	22	25	28	41	31	11
26		21	9 1	45 9	19 23	34	25	23	26	30	12
27		24	8 38	39 9	45 19	30	25	17	11	30	12
28	22	28	8 16	19 33	10 10	14 21	22 25	10 12	14 56	17 29	20 12

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1915

New Moon March 15th in ♋ 23° 49'

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ♋'	° ♋'	° ♋'	° ♋'	° ♋'	° ♋'	° ♋'	° ♋'	° ♋'	° ♋'	° ♋'
1	9 49	24 21	24R49	6 18	25 23	6 7	23 41	13 13	28R 3	25 55	
2	10 50	25 28	24 16	20 20	23	21	24 28	17	1	52	
3	11 50	26 35	23 51	4 ♋38	24	36	25 15	20	0	49	
4	12 50	27 42	23 32	19 4	24	50	26 2	23	27 59	46	
5	13 50	28 49	23 21	3 ♋34	25 7	4	26 49	26	58	43	
6	14 50	29 56	23D16	18 2	26	19	27 37	29	57	39	
7	15 50	1 ♋4	23 18	2 ♋23	25 27	7 33	28 24	13 32	27 56	25 36	
8	16 50	2 12	23 26	16 35	28	48	29 11	35	55	33	
9	17 50	3 20	23 39	0 ♋35	29 8	2	29 58	38	54	30	
10	18 50	4 28	23 58	14 22	31	16	0 ♋45	41	56	27	
11	19 50	5 36	24 23	27 56	32	31	1 33	44	52	24	
12	20 50	6 44	24 52	11 ♋17	34	45	2 20	47	51	20	
13	21 50	7 52	25 25	24 26	35	59	3 7	50	51	17	
14	22 50	9 1	26 3	7 ♋22	25 37	9 14	3 54	13 53	27 50	25 14	
15	23 49	10 9	26 45	20 6	39	28	4 41	56	49	11	
16	24 49	11 18	27 31	2 ♋38	41	42	5 28	59	48	8	
17	25 49	12 27	28 20	14 59	43	56	6 16	14 2	47	5	
18	26 49	13 36	29 12	27 9	45	10 11	7 3	5	47	1	
19	27 48	14 45	0 ♋8	9 8 11	47	25	7 50	7	46	24 58	
20	28 48	15 54	1 6	21 6	50	39	8 37	10	45	55	
21	29 47	17 3	2 7	2 ♋58	25 52	10 53	9 24	14 13	27 45	24 52	
22	0 ♋47	18 13	3 11	14 51	55	11 7	10 11	15	44	49	
23	1 47	19 22	4 17	26 48	58	21	10 58	18	44	46	
24	2 46	20 32	5 25	8 ♋54	26 1	35	11 45	21	43	42	
25	3 45	21 41	6 35	21 15	3	49	12 32	23	43	39	
26	4 45	22 51	7 48	3 ♋55	7 12	3 13	13 19	26	42	36	
27	5 44	24 0	9 3	16 58	10	17	14 6	28	42	33	
28	6 44	25 10	10 19	0 ♋26	26 13	12 31	14 53	14 31	27 41	24 30	
29	7 43	26 20	11 38	14 21	16	44	15 40	33	41	27	
30	8 42	27 30	12 58	28 41	20	58	16 27	36	41	23	
31	9 41	28 40	14 20	13 ♋21	26 23	13 12	17 14	14 38	27 40	24 20	

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1915

Full Moon March 1st in $\text{m}\gamma$ $9^{\circ} 49'$

Full Moon March 31st in $\simeq$ $9^{\circ} 41'$

Declination of the Planets

D	ST	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ S	♂ S	♂ S	♂ N
1	22 32	7 53	19 26	10 35	8 22	22 26	10 7	14 41	17 28	20 12	
2	36	7 30	19 19	57 1	52 26	1	25	27	12		
3	40	7 8	19 11	11 18	4 s50	26 9	56	9	26	13	
4	44	6 45	19 3	37 11	20 26	51	13 53	25	13		
5	48	6 22	18 54	54 17	16 26	46	37	24	13		
6	52	5 58	18 45	12 9	22 12	26	40	21	23	13	
7	22 56	5 35	18 35	12 21	25 47	22 27	9 35	13 5	17 22	20 14	
8	23 0	5 12	18 25	32 27	41 27	30	12 49	22	14		
9	4 4	49 18	14 40	27 48	27	25	32	21	14		
10	8 4	25 18	3 47	26 11	27	19	15	20	14		
11	12 4	2 17	51 51	23 3	28	14	11 59	19	15		
12	16 3	38 17	39 53	18 43	28	8	42	18	15		
13	20 3	14 17	26 54	13 34	28	3	25	17	15		
14	23 24	2 51	17 12	12 52	7 53	22 28	8 58	11 8	17 17	20 15	
15	28 2	27 16	58 49	1 59	29	53	10 50	16	15		
16	31 2	3 16	44 44	3 N53	29	47	33	15	15		
17	35 1	40 16	29 37	9 31	29	42	16	14	16		
18	39 1	16 16	14 28	14 42	29	37	9 58	14	16		
19	43 0	52 15	58 18	19 16	30	32	41	13	16		
20	47 0	29 15	42 6	23 2	30	26	23	12	16		
21	23 51	0 5	15 25	11 52	25 49	22 30	8 21	9 5	17 11	20 16	
22	55 0	N 19	15 8	37 27	28 30	16	8 47	11	16		
23	59 0	43 14	50 20	27 52	31	11	27	10	17		
24	0 3	1 6	14 33	2 26	57 31	5	11	9	17		
25	7 1	30 14	14 10	42 24	41 31	0 7	53	8	17		
26	11 1	53 13	55 21	21 10	31 7	55	35	8	17		
27	15 2	17 13	36 9	58 16	32	50	17	7	17		
28	0 19	2 41	13 16	9 34	10 56	22 32	7 45	6 59	17 6	20 17	
29	23 3	4 12	56 9	4 39	33	39	41	5	17		
30	27 3	27 12	36 8	42 2 s	3 33	34	22	5	17		
31	0 31	3 51	12 15	8 14	8 46	22 33	7 29	6 4	17 4	20 17	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1915

New Moon April 14th in γ 23° 27'

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° γ'	° ♀'	° ♂'	° ♂'	° ♂'	° ♂'	° ♂'	° ♂'	° ♂'	° ♂'	° ♂'	° ♂'
1	10 41	29 50	15 44	28 14	26 27	13 26	18 1	14 40	27R40	24 17		
2	11 40	1 17	9 17	13 12	30	39	18 48	43	40	14		
3	12 39	2 11	18 36	28 5	34	53	19 35	45	40	11		
4	13 38	3 21	20 5	12 47	38	14 6	20 22	47	39	8		
5	14 37	4 31	21 35	27 10	42	20	21 9	49	39	5		
6	15 36	5 42	23 7	11 13	46	33	21 56	51	39	1		
7	16 35	6 52	24 40	24 55	26 50	14 47	22 43	14 53	27 39	23 58		
8	17 34	8 3	26 15	8 17	55	15 0	23 29	55	39	55		
9	18 33	9 14	27 52	21 21	59	13 24	16	57	39	52		
10	19 32	10 24	29 30	4 10	27 3	26 25	3	59	D39	48		
11	20 31	11 35	1 9	16 46	8	40 25	50	15 1	39	45		
12	21 30	12 46	1 50	29 12	12	53 26	36	3	39	42		
13	22 28	13 57	4 33	11 29	17	16 6	27 23	5	39	39		
14	23 27	15 8	6 17	23 38	27 22	16 19	28 10	15 7	27 39	23 36		
15	24 26	16 19	8 3	5 41	27	32 28	57	9	40	33		
16	25 25	17 30	9 50	17 38	32	45 29	43	10	40	29		
17	26 23	18 41	11 39	29 31	37	57 0	30	12	40	26		
18	27 22	19 52	13 30	11 22	42	17 10	1	16	40	23		
19	28 21	21 3	15 22	23 14	47	23 2	3	15	41	20		
20	29 19	22 14	17 15	5 10	52	35 2	49	17	41	17		
21	0 8	23 25	19 11	17 14	27 57	17 48	3	36	15 18	27 42	23 13	
22	1 16	24 36	21 7	29 32	28 3	18 0	4	22	20	42	10	
23	2 15	25 48	23 6	12 7	8	13 5	8	21	42	7		
24	3 13	26 59	25 6	25 5	14	25 5	55	22	43	4		
25	4 12	28 10	27 7	8 29	19	37 6	41	24	43	1		
26	5 10	29 22	29 10	22 23	25	49 7	27	25	44	22 57		
27	6 8	0 33	1 18	14 6	31	19 1	8	14	26	45	54	
28	7 7	1 44	3 20	21 35	28 37	19 13	9	0	15 27	27 45	22 51	
29	8 5	2 56	5 27	6 42	42	25 9	46	28	46	48		
30	9 3	4 7	7 34	21 58	28 48	19 37	10	32	15 29	27 47	22 45	

Calculated for Mean Noon at Greenwich

April, 1915

Full Moon April 29th in $m. 8^{\circ} 5'$

Declination of the Planets

D	S	T	N	S	S	S	N	S	S	S	S	S	Ψ							
1	0	35	4	14	11	54	7	45	15	7	22	33	7	24	5	45	17	3	20	18
2		39	4	37	11	33	7	15	26	35		33		19		27		3		18
3		42	5	0	11	11	6	43	24	44		34		14		8		2		18
4		46	5	23	10	49	6	10	27	12		34		8	4	50		2		18
5		50	5	46	10	26	5	36	27	47		34		3		31		1		18
6		54	6	9	10	4	5	0	26	32		34	6	58		13		1		18
7	0	58	6	32	9	40	4	24	23	43	22	35	6	53	3	54	17	0	20	18
8	1	2	6	54	9	17	3	46	19	39		35		48		35		0		18
9		6	7	17	8	53	3	7	14	44		36		43		17	16	59		18
10		10	7	39	8	29	2	27	9	15		36		38	2	58		58		18
11		14	8	1	8	5	1	46	3	30		36		33		39		57		18
12		18	8	23	7	41	1	4	2	N18		36		28		20		57		18
13		22	8	45	7	16	0	21	7	56		37		23		2		56		18
14	1	26	9	7	6	51	0	N23	13	12	22	37	6	19	1	43	16	56	20	18
15		30	9	29	6	26	1	8	17	56		37		14		24		55		18
16		34	9	50	6	1	1	53	21	55		37		9		5		55		18
17		38	10	12	5	35	2	40	24	58		38		4	0	47		55		18
18		42	10	33	5	10	3	28	26	56		38	5	59		28		55		18
19		46	10	54	4	44	4	16	27	41		38		54		9		54		18
20		49	11	15	4	18	5	5	27	10		38		50	N	9		54		18
21	1	53	11	35	3	51	5	55	25	21	22	39	5	45	0	28	16	53	20	18
22		57	11	56	3	25	6	45	22	18		39		40		47		53		18
23	2	1	12	16	2	59	7	36	18	10		39		35	1	5		52		18
24		5	12	36	2	32	8	28	13	4		39		30		24		52		18
25		9	12	56	2	5	9	19	7	12		40		26		43		51		17
26		13	13	15	1	38	10	11	0	48		40		21	2	1		51		17
27		17	13	35	1	11	11	3	5	S5J		40		17		20		51		17
28	2	21	13	54	0	44	11	55	12	22	22	40	5	13	2	38	16	51	20	17
29		25	14	13	0	17	12	47	18	18		40		8		57		50		17
30	2	29	14	31	0	N10	13	39	23	7	22	41	5	3	3	15	16	50	20	17

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1915

New Moon May 14th in γ $22^{\circ} 36'$

Longitude of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1915

Full Moon May 28th in $\uparrow$ $6^{\circ} 4'$

Declination of the Planets

D	ST	ON		N		N		S		N		S		N		S		N		
1	2	33	14	50	0	87	14	29	26	19	22	41	4	59	3	33	16	50	20	17
2		37	15	8	1	4	15	20	27	36		41		54		52		50		17
3		41		26	1	31	16	9	26	53		41		50	4	10		49		16
4		45		44	1	59	16	57	24	25		41		46		28		49		16
5		49	16	1	2	26	17	44	20	33		42		42		46		49		16
6		53		19	2	53	18	29	15	45		42		37	5	4		49		16
7	2	56	16	35	3	20	13	13	10	21	22	42	4	33	5	22	16	48	20	16
8	3	0		52	3	48	19	55	4	39		42		28		40		48		16
9		4	17	8	4	15	20	34	1	N 6		42		25		58		48		16
10		8		25	4	42	21	12	6	43		42		21	6	16		48		16
11		12		40	5	9	21	47	12	1		43		17		34		48		15
12		16		56	5	36	22	19	16	49		43		13		51		48		15
13		20	18	11	6	3	22	49	20	56		43		9	7	9		48		15
14	3	24	18	26	6	30	23	17	24	12	22	43	4	5	7	26	16	48	20	15
15		28		41	6	56	23	41	26	25		43		1		44		47		14
16		32		55	7	23	24	4	27	27		43	3	57	8	1		47		14
17		36	19	9	7	49	24	23	27	13		43		53		18		47		14
18		40		22	8	16	24	41	25	43		43		49		35		47		14
19		44		36	8	42	24	56	23	0		43		45		52		47		14
20		48		49	9	8	25	8	19	13		43		41	9	9		47		14
21	3	52	20	1	9	34	25	18	14	30	22	44	3	38	9	26	16	47	20	13
22		56		14	9	59	25	26	9	1		44		35		43		47		13
23	4	0		26	10	25	25	32	2	59		44		31		59		47		13
24		4		37	10	50	25	36	3	S 23		44		27	10	16		47		13
25		7		48	11	15	25	37	9	47		44		24		32		48		12
26		11		59	11	40	25	37	15	52		44		20		48		48		12
27		15	21	10	12	4	25	36	21	8		44		17	11	4		48		11
28	4	19	21	20	12	28	25	32	25	4	22	44	3	14	11	20	16	48	20	11
29		23		30	12	52	25	28	27	12		44		11		36		48		11
30		27		39	13	16	25	21	27	16		44		8		52		48		11
31	4	31	21	48	13	40	25	14	25	21	22	44	3	5	13	8	16	48	20	10

[illegible]

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1915

New Moon July 12th in ♄ 19° 2'

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
°	°	°	°	°	°	°	°	°	°	°	°
♈	♈	♈	♈	♈	♈	♈	♈	♈	♈	♈	♈
1	8 33	18 46	2 6	6 1	6 16	28 0	26 37	15r 2	29 21	19 28	28
2	9 30	19 59	1 38	19 9	24	3 27	20	0	23	25	25
3	10 27	21 12	1 14	1 53	32	6 28	2	14 58	25	22	22
4	11 25	22 25	0 54	14 18	40	9 28	45	56	27	18	18
5	12 22	23 38	0 37	26 28	48	12 29	27	54	29	15	15
6	13 19	24 51	0 25	8 28	56	14 0	11 10	3	31	12	12
7	14 16	26 4	0 17	20 21	7	3 28	17 0	52	14 51	29 34	19 9
8	15 13	27 17	0 15	2 13	11	19 1	35	49	36	5	5
9	16 11	28 30	0 17	14 5	19	21 2	17	47	38	2	2
10	17 8	29 43	0 24	26 1	27	23 2	59	45	40	18 59	59
11	18 5	0 56	0 37	8 3	34	25 3	41	43	42	56	56
12	19 2	10 0	55 20	12	42	26 4	23	41	44	53	53
13	20 0	3 23	1 18	2 31	50	27 5	5	38	47	50	50
14	20 57	4 36	1 47	14 59	7	57 28	28 5	47	14 36	29 49	18 47
15	21 54	5 49	2 21	27 40	8	5	29 6	29	34	51	43
16	22 51	7 2	3 0	10 33	13	30 7	11	32	53	40	40
17	23 49	8 16	3 45	23 41	20	30 7	53	30	55	37	37
18	24 46	9 29	4 35	7 5	28	31 8	34	28	58	34	34
19	25 43	10 42	5 29	20 47	36	31 9	16	25	0 0	31	31
20	26 40	11 56	6 29	4 47	43	R 31	9 57	23	2	27	27
21	27 38	13 9	7 34	19 3	8	51 28	30 10	39	14 21	0 4	18 24
22	28 35	14 22	8 44	3 35	58	30 11	20	19	7	21	21
23	29 32	15 36	9 59	18 16	9	6 29	12 1	16	9	18	18
24	0 29	16 49	11 18	3 2	13	28 12	42	14	11	15	15
25	1 27	18 3	12 43	17 45	21	27 13	23	12	13	12	12
26	2 24	19 16	14 11	2 18	28	26 14	4	10	15	8	8
27	3 21	20 30	15 44	16 35	36	24 14	45	7	18	5	5
28	4 19	21 43	17 21	0 31	9	43 28	23 15	26	14 5	0 20	18 2
29	5 16	22 57	19 2	14 5	50	21 16	7	3	22	17 59	59
30	6 13	24 11	20 47	27 15	58	19 16	48	0	24	56	56
31	7 11	25 24	22 35	10 2	10	5 28	16 17	28	13 58	0 27	17 53

SIMPLIFIED SCIENTIFIC
EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1915

Full Moon July 26th in $\approx 2^{\circ} 24'$

Declination of the Planets

D	S	T	☉ N	☿ N	♀ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	6	33	23 11	22 19	18 45	7 48	22 39	1 58	18 58	17 0	19 59		
2		37	7	27	43	1 49	39	57	19 8	0	59		
3		41	2	35	42	4 N 3	38	56	18	1	58		
4		45	22 58	42	43	9 37	38	55	28	1	58		
5		49	53	48	45	14 43	38	54	38	2	57		
6		53	47	54	49	19 10	38	54	48	2	57		
7	6	57	22 41	22 59	18 53	22 50	22 37	1 53	19 58	17 3	19 56		
8	7	1	35	23 3	59	25 32	37	53	20 7	4	56		
9		5	28	7 19	7 27	7	37	52	16	5	55		
10		9	21	10	15	27 28	37	52	25	5	55		
11		13	14	12	24	26 31	36	51	34	6	55		
12		17	6	14	34	24 17	36	51	42	6	55		
13		21	21 58	15	45	20 55	35	51	51	7	54		
14	7	25	21 49	23 15	19 56	16 33	22 35	1 51	20 59	17 7	19 54		
15		29	40	15 20	8 11	25	34	50	21 7	8	53		
16		32	31	14	20	5 42	34	50	15	9	53		
17		36	21	12	32	0 s 21	33	50	22	10	52		
18		40	11	9	44	6 30	33	50	30	10	52		
19		44	1	6	56	12 28	33	51	37	11	51		
20		48	20 50	3 21	7 17	56	33	51	44	11	51		
21	7	52	20 39	22 58	21 18	22 32	22 32	1 52	21 50	17 12	19 50		
22		56	27	53	28	25 50	32	52	57	13	50		
23	8	0	15	22 47	37	27 26	31	53	22 3	14	49		
24		4	3	41	45	27 6	31	53	9	14	49		
25		8	19 51	34	52	24 51	30	54	15	15	48		
26		12	38	26	57	20 59	30	55	21	15	48		
27		16	25	18 22	0 15	56	29	56	27	16	47		
28	8	20	19 11	22 8	2 10	10 10	22 29	1 57	22 32	17 17	19 47		
29		24	18 58	21 59	1 4	4	28	58	37	18	46		
30		28	44	48 21	58	2 N 1	28	59	42	18	46		
31	8	32	18 29	21 37	52	7 50	22 27	2 0	22 47	17 19	19 45		

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1915

Eclipse of Sun August 10th in Ω $16^{\circ}46'$

Longitude of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1915

Full Moon August 24th in $\propto$ 0° 13'

Declination of the Planets

D	S	T	☉ N	♀ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N
1	8	36	18 14	21 26	21 44	13 12	22 27	2	1 22	51	17 20	19 45
2		40	17 59	21 13	21 34	17 57	27		2	56	20	45
3		43	17 44	21 0	21 21	21 54	26		4 23	0	21	44
4		47	17 29	20 47	21 5	24 55	26		5	4	22	44
5		51	17 13	20 33	20 46	26 50	25		7	7	23	43
6		55	16 56	20 18	20 25	27 33	25		8	11	23	43
7	8	59	16 40	20 3	20 2	26 59	22 24	2	10 23	14	17 24	19 42
8	9	3	16 23	19 47	19 36	25 7	24		12	17	25	42
9		7	16 6	19 30	19 7	22 2	23		14	20	26	41
10		11	15 49	19 13	18 37	17 53	23		16	23	26	41
11		15	15 32	18 56	18 4	12 51	22		17	25	27	40
12		19	15 14	18 38	17 30	7 11	21		19	28	27	40
13		23	14 56	18 19	16 54	1 6	20		21	30	28	39
14	9	27	14 38	18 0	16 16	5 s 7	22 20	2	23 23	32	17 29	19 39
15		31	14 19	17 40	15 37	11 11	19		26	34	30	38
16		35	14 1	17 20	14 57	16 47	19		28	35	30	38
17		39	13 42	17 0	14 15	21 34	18		30	36	31	38
18		43	13 23	16 39	13 33	25 9	18		33	38	31	38
19		47	13 3	16 17	12 50	27 11	17		35	39	32	37
20		50	12 44	15 55	12 6	27 25	17		37	39	33	37
21	9	54	12 24	15 32	11 22	25 50	22 16	2	40 23	40	17 34	19 36
22		58	12 4	15 10	10 37	22 34	16		42	40	34	36
23	10	2	11 44	14 46	9 52	17 59	15		45	41	35	35
24		6	11 24	14 23	9 7	12 30	15		48	41	35	35
25		10	11 3	13 58	8 21	6 30	14		51	41	36	34
26		14	10 43	13 34	7 35	0 21	14		54	40	36	34
27		18	10 22	13 9	6 49	5 N 39	13		56	40	37	33
28	10	22	10 1	12 44	6 3	11 17	22 13	2	59 23	39	17 38	19 33
29		26	9 40	12 18	5 17	16 20	12	3	2	38	39	32
30		30	9 18	11 52	4 32	20 38	12		5	37	39	32
31	10	34	8 57	11 26	3 46	24 0	22 11	3	8 23	36	17 40	19 32

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1915

New Moon September 9th in $\eta 15^{\circ} 43'$

Longitude of the Planets

☿	♈	♀	♊	♋	♌	♍	♎	♏	♐	♑	♒
°	′	°	′	°	′	°	′	°	′	°	′
1	7 57	4 54	23 47	6 37	13 34	25R34	8 23	12R44	1 33	16 11	
2	8 55	6 8	25 25	18 29	39	27	9 1	42	35	8	
3	9 53	7 23	27 2	0 23	45	20	9 39	40	37	6	
4	10 51	8 37	28 37	12 25	50	12	10 16	38	39	1	
5	11 49	9 52	0 12	24 37	55	5	10 54	36	41	15	58
6	12 48	11 6	1 45	7 5	14 1	24 57	11 31	34	42	55	
7	13 46	12 21	3 17	19 50	14 6	24 49	12 8	12 32	1 44	15	52
8	14 44	13 36	4 47	2 54	11	42	12 45	30	46	48	
9	15 43	14 50	6 17	16 18	16	34	13 22	28	48	45	
10	16 41	16 5	7 45	29 59	21	26	13 59	26	49	42	
11	17 39	17 19	9 12	13 56	26	18	14 36	24	51	39	
12	18 38	18 34	10 38	28 4	31	10	15 12	23	53	36	
13	19 36	19 48	12 3	12 19	36	2	15 49	21	54	33	
14	20 35	21 3	13 26	26 36	14 40	23 54	16 25	12 19	1 56	15	29
15	21 33	22 18	14 48	10 53	45	46	17 2	17	57	26	
16	22 32	23 32	16 9	25 5	49	38	17 38	16	59	23	
17	23 30	24 47	17 28	9 11	54	30	18 14	14 2	1	20	
18	24 29	26 2	18 46	23 9	58	22	18 50	12	2	17	
19	25 27	27 17	20 2	6 59	15 2	14	19 26	11	4	14	
20	26 26	28 31	21 17	20 40	6	6	20 1	9	5	10	
21	27 24	29 46	22 31	4 10	15 10	22 58	20 37	12 8	2 6	15	7
22	28 23	1 1	23 42	17 29	14	50	21 12	7	8	4	
23	29 22	2 15	24 52	0 34	18	42	21 48	5	9	1	
24	0 21	3 30	26 0	13 26	22	35	22 23	4	11	14	58
25	1 19	4 45	27 6	26 3	26	27	22 58	3	12	55	
26	2 18	6 0	28 9	8 26	29	19	23 33	1	13	51	
27	3 17	7 14	29 10	20 37	33	11	24 8	0	15	48	
28	4 16	8 29	0 11	2 38	15 36	22 4	24 42	11 59	2 16	14	45
29	5 15	9 44	1 5	14 31	40	21 56	25 17	58	17	42	
30	6 14	10 59	1 58	26 22	15 43	21 48	25 51	11 57	2 18	14	39

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1915

Full Moon September 23rd in κ $29^{\circ} 22'$

Declination of the Planets

D	S T			☉ N	♀ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	
1	10	38	8	35	10	59	3	0	26	18	22	10	3	11	23	35	17	40	19	31	
2		42	8	14	10	32	2	15	27	25		10		14		33		41		31	
3		46	7	52	10	5	1	30	27	17		9		17		32		42		30	
4		50	7	30	9	38	0	45	25	51		9		20		30		42		30	
5		54	7		8	9	10	0	1	23	12		8		23		28		43		30
6		57	6	45	8	42	0	s 43	19	24		8		27		26		43		30	
7	11	1	6	23	8	14	1	27	14	39	22	7	3	30	23	23	17	44	19	29	
8		5	6		17	45	2	10	9	7		7		33		21		44		29	
9		9	5	38	7	17	2	53	3	4		6		36		18		45		28	
10		13	5	15	6	48	3	35	3	s 15		6		39		15		45		28	
11		17	4	53	6	19	4	17	9	31		5		42		12		46		27	
12		21	4	30	5	50	4	58	15	23		5		45		9		46		27	
13		25	4		7	5	20	5	39	20	28		4		49		6		47		26
14	11	29	3	44	4	51	6	19	24	23	22	4	3	52	23	3	17	47	19	26	
15		33	3	21	4	21	6	58	26	47		3		55	22	59		48		26	
16		37	2	58	3	51	7	37	27	26		3		58		56		48		26	
17		41	2	35	3	21	8	14	26	18		2	4	2		52		49		25	
18		45	2	12	2	51	8	52	23	31		2		5		48		49		25	
19		49	1	48	2	21	9	28	19	24		1		8		44		49		24	
20		53	1	25	1	51	10	3	14	17		1		11		40		49		24	
21	11	57	1		2	1	20	10	38	8	33	22	1	4	14	22	36	17	50	19	24
22	12	1	0	38	0	50	11	12	2	31		1		17		31		50		24	
23		5	0	15	0	19	11	44	3	N 30		0		21		27		51		23	
24		8	0	s 8	0	s 11	12	16	9	16		0		24		22		51		23	
25		12	0	32	0	41	12	47	14	33	21	59		27		17		52		23	
26		16	0	55	1	12	13	16	19	8		59		30		13		52		23	
27		20	1	19	1	42	13	44	22	50		58		33		8		52		22	
28	12	24	1	42	2	13	14	11	25	31	21	58	4	36	22	3	17	52	19	22	
29		28	2		5	2	43	14	36	27	2		58		39	21	57		53		21
30	12	32	2	29	3	14	15	0	27	19	21	57	4	42	21	52	17	53	19	21	

D	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	
	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	
1	7	13	12	14	2	48	8	15	15	46	21R	41	26	25	11R	56	2	19	14	36	
2	8	12	13	29	3	35	20	14		49		34	26	59		55		21		32	
3	9	11	14	43	4	17	2	Ω	26		52		26	27	33		54		22	29	
4	10	10	15	58	4	56	14	56		55		19	28	7		53		23		26	
5	11	9	17	13	5	30	27	46		57		12	28	41		52		24		23	
6	12	8	18	28	5	59	11nq	1	16	0		5	29	14		51		25		19	
7	13	8	19	43	6	23	24	41	16	3	20	58	29	48	11	50	2	26	14	16	
8	14	7	20	58	6	41	8	=44		5		51	0	Ω	21		49		27	13	
9	15	6	22	13	6	53	23	7		7		45	0	54		49		28		10	
10	16	5	23	28	6	r58	7	m	43		9	38	1	27		48		29		7	
11	17	5	24	43	6	56	22	26		12		32	2	0		48		29		4	
12	18	4	25	57	6	47	7	/	6		14		26	2	32		47		30	0	
13	19	4	27	12	6	29	21	38		15		20	3	4		47		31	13	57	
14	20	3	28	27	6	3	5	v58	16	17	20	14	3	37	11	46	2	32	13	54	
15	21	2	29	42	5	28	20	2		19		8	4	9		46		33		51	
16	22	2	0	m	57	4	45	3	≈	51		20		24	40		45		33	48	
17	23	2	2	12	3	51	17	25		22	19	57	5	12		45		34		45	
18	24	1	3	27	2	56	0	κ	45		23		51	5	44		45		35	41	
19	25	1	4	42	1	51	13	52		24		46	6	15		45		35		38	
20	26	0	5	57	0	40	26	48		25		41	6	46		45		36		35	
21	27	0	7	12	29	=	9	γ	34	16	26	19	36	7	17	11	44	2	36	13	32
22	28	0	8	27	28	11	22	9		27		32	7	48		44		37		29	
23	28	59	9	42	26	57	4	δ	33		28		27	8	18		d14		37	26	
24	29	59	10	57	25	45	16	47		29		23	8	48		45		38		22	
25	0	m	59	12	11	24	39	28	52		29		19	9	18		45		38	19	
26	1	59	13	26	23	40	10	Π	49		30		15	9	48		45		39	16	
27	2	59	14	41	22	49	22	40		30		11	10	18		45		39		13	
28	3	58	15	56	22	9	4	Σ	29	16	30	19	7	10	48	11	45	2	39	13	10
29	4	58	17	11	21	40	16	19		30			4	11	17		46		40		7
30	5	58	18	26	21	22	28	16		r30			1	11	46		46		40		3
31	6	58	19	41	21	d16	10	Ω	24	16	30	18	58	12	15	11	46	2	40	13	0

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1915

Full Moon October 23rd in γ $28^{\circ} 59'$

Declination of the Planets

D	S T		⊙	♀	♂	Δ	♂	Σ	♂	Σ	♂	Σ									
			S	S	S	N	N	S	N	S	S	Ψ									
1	12	36	2	52	3	44	15	23	26	20	21	57	4	45	21	47	17	53	19	21	
2		40	3	15	4	14	15	43	24	8		57		47		41		53		21	
3		44	3	39	4	45	16	2	20	48		56		50		36		54		21	
4		48	4		2	5	15	16	18	16	27		56		53		30		54		21
5		52	4	25	5	45	16	33	11	16		56		56		24		54		20	
6		56	4	48	6	15	16	45	5	26		56		58		19		54		20	
7	13	0	5	11	6	44	16	55	0	s49	21	55	5	1	21	13	17	55	19	20	
8		4	5	34	7	14	17	1	7	12		55		4		7		55		20	
9		8	5	57	7	44	17	5	13	20		55		6		1		55		19	
10		12	6	20	8	13	17	5	18	50		55		8	20	55		55		19	
11		15	6	43	8	42	17	2	23	14		54		11		49		55		19	
12		19	7		6	9	11	16	55	26	8		54		14		42		55		19
13		23	7	28	9	40	16	44	27	15		54		16		36		56		18	
14	13	27	7	51	10	8	16	29	26	31	21	54	5	18	20	30	17	56	19	18	
15		31	8	13	10	37	16	9	24	4		53		20		24		56		18	
16		35	8	35	11	5	15	45	20	15		53		22		17		56		18	
17		39	8	58	11	32	15	16	15	25		53		24		11		56		18	
18		43	9	20	12	0	14	42	9	55		53		26		4		56		18	
19		47	9	41	12	27	14	5	4	5		53		28	19	58		56		17	
20		51	10	3	12	54	13	24	1	N50		53		30		51		56		17	
21	13	55	10	25	13	21	12	40	7	34	21	53	5	32	19	44	17	56	19	17	
22		59	10	46	13	47	11	55	12	56		53		34		38		56		17	
23	14	3	11	7	14	13	11	9	17	41		53		35		31		56		17	
24		7	11	29	14	39	10	24	21	39		53		36		25		56		17	
25		11	11	49	15	4	9	40	24	38		53		38		18		56		17	
26		15	12	10	15	29	9	0	26	30		53		39		11		56		17	
27		19	12	31	15	53	8	24	27	8		52		40		4		56		16	
28	14	23	12	51	16	17	7	53	26	32	21	52	5	42	18	58	17	56	19	16	
29		26	13	11	16	41	7	27	24	44		53		43		51		55		16	
30		30	13	31	17	4	7	7	21	48		53		44		44		55		16	
31	14	34	13	51	17	27	6	53	17	53	21	53	5	45	18	37	17	55	19	16	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1915

New Moon November 7th in η $13^{\circ} 59'$

Longitude of the Planets

♂	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
♂	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
1	7	58	20	56	21	21	22	50	16R30	18R55	12	43	11	47	2	40	12	57		
2	8	58	22	11	21	37	5	μ38	30	52	13	11		47		40		54		
3	9	59	23	26	22	3	18	53	29	50	13	40		48		40		51		
4	10	59	24	41	22	38	2	≈37	29	48	14	7		49		40		47		
5	11	59	25	56	23	22	16	49	28	46	14	35		49		41		44		
6	12	59	27	11	24	13	1	μ27	27	44	15	2		50		R41		41		
7	13	59	28	26	25	11	16	24	16	26	18	42	15	29	11	51	2	40	12	39
8	15	0	29	41	26	14	1	‡30	25	41	15	56		52		40		35		
9	16	0	0	‡56	27	23	16	35	24	40	16	22		52		40		32		
10	17	0	2	11	28	36	1	∨30	23	39	16	49		53		40		28		
11	18	1	3	26	29	53	16	6	22	38	17	14		54		40		25		
12	19	1	4	41	1m13	0	≈21		20	37	17	40		55		40		22		
13	20	1	5	56	2	36	14	13	19	37	18	5		56		40		19		
14	21	2	7	11	4	0	27	44	16	17	18	37	18	30	11	58	2	39	12	16
15	22	2	8	26	5	27	10	×54	15		D37	18	55		59		39		13	
16	23	3	9	41	6	55	23	48	13		37	19	19	12	0		39		9	
17	24	3	10	56	8	25	6	γ29	11		37	19	43		1		38		6	
18	25	4	12	11	9	56	18	57	9		38	20	7		3		38		3	
19	26	4	13	25	11	27	1	δ16	7		39	20	30		4		37		0	
20	27	5	14	40	12	59	13	27	5		40	20	54		5		37	11	57	
21	28	5	15	55	14	32	25	31	16	2	18	41	21	16	12	7	2	36	11	54
22	29	6	17	10	16	5	7	Π29		0		43	21	39		8		36		50
23	0	‡	7	18	25	17	39	19	15	57		44	22	0		10		35		47
24	1	7	19	40	19	12	1	Σ11		54		46	22	22		12		35		44
25	2	8	20	55	20	46	13	0		52		48	22	43		13		34		41
26	3	9	22	10	22	20	24	50		49		51	23	4		15		33		37
27	4	9	23	25	23	54	6	Ω47		45		53	23	25		17		33		34
28	5	10	24	40	25	28	18	54	15	43	18	56	23	45	12	18	2	32	11	31
29	6	11	25	55	27	2	1	μ16		40		59	24	4		20		31		28
30	7	12	27	9	28	36	13	59	15	36	19	2	24	23	12	22	2	30	11	25

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1915

Full Moon November 21st in γ $28^{\circ} 5'$

Declination of the Planets

D	S	T	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ N	♂ S	♂ N
1	14	38	14 11	17 49	6 44	13 7	21 53	5 46	18 31	17 55	19 16
2		42	30 18	11 6	42 7	40 53	46 24		55 16		
3		46	49 33	6 44	1 42	53 47	17 55		16 16		
4		50	15 8	53 6	52 4	s33 53	48 11		56 16		
5		54	26 19	14 7	4 10	46 53	49 4		54 16		
6		58	45 34	7 20	16 35	53 49	17 57		54 16		
7	15	2	16 3	19 53	7 40	21 32	21 53	5 49	17 51	17 54	19 16
8		6	21 20	12 8	2 25	6 53	49 44		54 16		
9		10	38 30	8 27	26 54	54 50	38 53		16 16		
10		14	56 48	8 54	26 43	54 50	31 53		16 16		
11		18	17 12	21 5	9 23	24 40	54 50	25 53	16 16		
12		22	29 21	9 54	21 5	54 50	19 53		16 16		
13		26	46 37	10 26	16 23	55 50	12 52		16 16		
14	15	30	18 2	21 52	10 58	10 59	21 55	5 50	17 6	17 52	19 16
15		33	17 22	7 11	31 5	13 55	50 0		51 16		
16		37	33 21	12 5	0 N38	55 50	16 54		51 16		
17		41	48 34	12 39	6 20	56 49	48 50		17 17		
18		45	19 3	47 13	13 11	42 56	49 42		50 17		
19		49	17 59	13 47	16 33	56 48	36 50		17 17		
20		53	31 23	10 14	21 20	39 56	48 30		50 17		
21	15	57	19 45	23 21	14 55	23 52	21 57	5 47	16 24	17 49	19 17
22	16	1	58 31	15 28	26 0	57 46	19 49		17 17		
23		5	20 11	40 16	1 26	56 58	45 13		48 17		
24		9	24 48	16 33	26 38	58 44	8 48		17 17		
25		13	36 56	17 5	25 8	58 43	3 47		18 18		
26		17	48 24	3 17	36 22	30 58	42 15	58 47	18 18		
27		21	59 10	18 7	18 53	59 41	53 46		18 18		
28	16	25	21 10	24 15	18 36	14 26	21 59	5 40	15 48	17 46	19 18
29		29	21 20	19 5	9 19	22 0	38 43		45 18		
30	16	33	21 31	24 24	19 33	3 41	22 15	36 36	15 38	17 44	19 18

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1915

New Moon December 6th in $\uparrow$ $13^{\circ} 17'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	°	↑	°	↑	°	↑	°	↑	°	↑	°	↑
1	8 12	28 24	0 11	27 7	15R33	19 5	24 42	12 24	2 R30	11 22		
2	9 13	29 39	1 45	10=43	30	9 25	0	26	29	18		
3	10 14	0V54	3 19	24 50	26	12	18	28	28	15		
4	11 15	2 9	4 53	9 ♀26	22	16	36	30	27	12		
5	12 16	3 24	6 27	24 26	19	20	52	32	26	9		
6	13 17	4 39	8 1	9 †40	15	24	26 9	34	25	6		
7	14 18	5 54	9 35	24 59	15 11	19 29	26 25	12 37	2 24	11 3		
8	15 19	7 9	11 9	10V11	7	34	40	39	23	10 59		
9	16 20	8 23	12 43	25 6	3	38	55	41	22	56		
10	17 21	9 38	14 17	9 ~37	14 59	43	27 9	43	21	53		
11	18 22	10 53	15 51	23 43	55	49	23	46	20	50		
12	19 23	12 8	17 26	7 †21	51	54	36	48	19	47		
13	20 24	13 23	19 0	20 35	47	59	49	50	18	44		
14	21 25	14 30	20 34	3 †27	14 42	20 5	28 1	12 53	2 17	10 40		
15	22 26	15 52	22 9	16 1	38	11	13	55	15	37		
16	23 27	17 7	23 43	28 20	34	17	24	58	14	34		
17	24 28	18 22	25 18	10 †29	29	23	34 13	0	13	31		
18	25 29	19 37	26 53	22 30	25	30	44	3	12	28		
19	26 30	20 51	28 28	4 †26	20	36	53	6	10	25		
20	27 31	22 6	0V3	16 18	16	43	29 1	8	9	21		
21	28 32	23 21	1 38	28 9	14 11	20 50	29 9	13 11	2 8	10 18		
22	29 33	24 35	3 14	9 †59	6	57	16	14	6	15		
23	0V34	25 50	4 50	21 51	1	21 4	23	17	5	12		
24	1 36	27 5	6 26	3 ♀47	13 57	12	29	19	4	9		
25	2 37	28 19	8 2	15 49	52	19	34	22	2	6		
26	3 38	29 34	9 38	28 1	47	27	38	25	1	2		
27	4 39	0~49	11 15	10♀26	42	35	42	28	1 59	9 59		
28	5 40	2 3	12 52	23 8	13 37	21 43	29 45	13 31	1 58	9 56		
29	6 41	3 18	14 29	6 =11	32	51	47	34	56	53		
30	7 42	4 32	16 6	19 39	28	59	49	37	55	49		
31	8 44	5 47	17 44	3 ♀33	13 23	22 8	29 49	13 40	1 53	9 46		

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1915

Full Moon December 21st in Π $28^{\circ} 32'$

Declination of the Planets

D	S	T	☉ S	♀ S	♂ S	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	16	37	21 41	24 28	20 0	2 16	22 1	5 35	15 34	17 44	19 19
2		40	51	30 20	26 8	19	1	34	29	44	19
3	44	22	0	32 20	52 14	11	2	32	25	43	19
4	48		8	34 21	16 19	27	2	30	21	43	19
5	52		17	34 21	39 23	39	3	28	17	41	19
6	56		24	34 22	1 26	16	3	26	13	41	19
7	17	0	22 32	24 32	22 22	26 56	22 4	5 24	15 10	17 40	19 20
8		4	39	31 22	42 25	33	4	22	6	40	20
9		8	45	28 23	1 22	22	5	20	3	39	20
10	12		51	25 23	19 17	49	5	18	0	38	20
11	16		57	20 23	35 12	25	6	16	14 57	37	21
12	20	23	2	16 23	51 6	34	6	14	55	37	21
13	24		6	10 24	5 0	37	7	11	52	36	21
14	17	28	23 10	24 4	24 18	5 N 12	22 7	5 8	14 50	17 36	19 21
15		32	14	23 57	24 29	10 40	8	6	48	35	22
16		36	17	49 24	39 15	36	8	4	46	34	22
17		40	20	40 24	48 19	51	9	1	45	33	22
18		44	22	31 24	56 23	14	9 4	58	43	32	22
19		48	24	21 25	2 25	36	10	55	42	31	23
20		51	26	10 25	7 26	48	11	52	41	31	23
21	17	55	23 27	22 59	25 11	26 47	22 12	4 49	14 41	17 30	19 24
22		59	27	47 25	13 25	32	12	46	40	29	24
23	18	3	27	34 25	13 23	8	13	43	40	28	24
24		7	27	21 25	13 19	43	13	40	40	28	24
25		11	26	7 25	0 15	27	14	37	41	27	25
26		15	24	21 52	25 6	10 31	14	34	41	26	25
27		19	22	37 25	1 5	5	15	30	42	25	26
28	18	23	23 20	21 21	24 54	0 s 39	22 15	4 27	14 43	17 24	19 26
29		27	17	4 24	46 6	31	16	23	44	23	26
30		31	14	20 47	24 36	12 16	16	19	46	23	26
31	18	35	23 10	20 29	24 24	17 36	22 17	4 16	14 48	17 22	19 27

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	1.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	1.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5565	.3522	.0649	8935	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5695	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5663	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	46	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	50	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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1916

Also Monthly Position of Pluto

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Date	Long.	Dec.	Date	Long.	Dec.
January 6	1° 59'	18° N 13'	July 4	3° 0'	18° N 35'
February 5	1° 58'	18° N 16'	August 3	3° 41'	18° N 34'
March 6	1° 54'	18° N 21'	September 2	4° 10'	18° N 32'
April 5	1° 52'	18° N 26'	October 2	4° 22'	18° N 30'
May 5	1° 50'	18° N 31'	November 1	4° 13'	18° N 28'
June 4	2° 57'	18° N 34'	December 1	3° 47'	18° N 29'
			December 31	3° 12'	18° N 31'

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1916

New Moon January 5th in $\text{vs } 13^{\circ} 49'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° W'	° W'	° W'	° m'	° W'	° W'	° W'	° W'	° W'	° W'	° W'
1	9 45	7 2	19 22	17 54	13R17	22 17	29R49	13 43	1 R51	9 43	43
2	10 46	8 17	20 59	2 † 38	12	25	48	46	50	40	40
3	11 47	9 31	22 37	17 41	7	34	47	49	48	37	37
4	12 48	10 45	24 15	2 vs 54	3	43	44	52	47	34	34
5	13 49	12 0	25 52	18 5	12 58	52	41	55	45	31	31
6	14 51	13 14	27 30	3 ~ 7	53	23 2	37	59	44	27	27
7	15 52	14 29	29 7	17 50	12 48	23 11	29 32	14 21	1 42	9 24	24
8	16 53	15 43	0 ~ 43	2 † 8	43	21	27	5	40	21	21
9	17 54	16 57	2 19	15 59	38	30	20	8	39	18	18
10	18 55	18 12	3 55	29 23	33	40	13	11	37	14	14
11	19 56	19 26	5 29	12 21	28	50	5	15	35	11	11
12	20 58	20 40	7 2	24 58	23 24	0 28	56	18	34	8	8
13	21 59	21 54	8 33	7 8 17	18	10	46	21	32	5	5
14	23 0	23 8	10 2	19 23	12 13	24 21	28 36	14 25	1 30	9 2	2
15	24 1	24 22	11 29	1 II 20	9	31	24	28	29 8	59	59
16	25 2	25 37	12 53	13 11	4	42	12	31	27	55	55
17	26 3	26 51	14 13	25 0	11 59	52	27 59	35	25	52	52
18	27 4	28 5	15 29	6 51	54	25 3	46	38	24	49	49
19	28 5	29 18	16 41	18 44	50	14	32	41	22	46	46
20	29 6	0 † 32	17 47	0 43	45	25	16	45	20	43	43
21	0 ~ 7	1 46	18 47	12 49	11 40	25 36	27 1	14 48	1 19	8 40	40
22	1 8	3 0	19 39	25 4	36	47	26 44	51	17	36	36
23	2 9	4 14	20 24	7 m 30	31	58	27	55	15	33	33
24	3 10	5 27	21 0	20 8	27	26 10	9	58	14	30	30
25	4 11	6 41	21 26	3 = 0	23	21	25 50	15 2	12	27	27
26	5 12	7 55	21 42	16 8	18	33	31	5	10	24	24
27	6 13	9 8	21R46	29 35	14	45	11	9	9	21	21
28	7 14	10 22	21 40	13 m 21	11 10	26 56	24 51	15 12	1 7	8 17	17
29	8 15	11 35	21 22	27 26	6	27 8	30	16	5	14	14
30	9 16	12 49	20 53	11 † 50	2	20	19	19	3	11	11
31	10 17	14 2	20 13	26 29	10 58	27 32	23 47	15 23	1 2	8 8	8

Calculated for Mean Noon at Greenwich

January, 1916

Eclipse of Moon January 20th in ν 29° 6'

Declination of the Planets

D	S T		○	S	♀	S	♀	S	D	S	h	N	2	S	♂	N	♂	S	Ψ	N
1	18	39	23	6	20	11	24	11	22	7	22	18	4	13	14	50	17	21	19	27
2		43		1	19	52	23	57	25	22		18		10		53		20		27
3		47	22	56	19	32	23	40	26	54		19		6		56		19		28
4		51		50	19	12	23	23	26	27		19		2		59		18		28
5		55		44	18	52	23	3	24	1		20	3	58	15	2		17		29
6		58		37	18	30	22	42	19	55		21		54		5		16		29
7	19	2	22	30	18	9	22	20	14	39	22	22	3	50	15	9	17	15	19	29
8		6		23	17	47	21	56	8	43		22		46		13		14		29
9		10		15	17	24	21	31	2	33		23		42		18		13		30
10		14		7	17	1	21	4	3	N31		23		38		23		12		30
11		18	21	58	16	37	20	36	9	15		24		34		28		11		31
12		22		49	16	13	20	7	14	26		24		30		33		10		31
13		26		39	15	49	19	37	18	56		25		26		38		9		32
14	19	30	21	29	15	24	19	6	22	33	22	25	3	21	15	44	17	9	19	32
15		34		19	14	58	18	34	25	11		26		17		50		8		32
16		38		8	14	33	18	1	26	41		26		12		56		7		32
17		42	20	57	14	7	17	28	26	58		27		8	16	2		6		33
18		46		45	13	40	16	55	26	1		27		4		9		5		33
19		50		33	13	13	16	22	23	52		28		0		16		4		34
20		54		21	12	46	15	49	20	40		28	2	55		23		3		34
21	19	58	20	8	12	19	15	17	16	33	22	29	2	50	16	30	17	2	19	35
22	20	2	19	55	11	51	14	47	11	42		29		46		37		1		35
23		6		41	11	23	14	18	6	20		30		41		45		0		35
24		9		27	10	54	13	51	0	38		30		36		53	16	59		35
25		13		13	10	26	13	26	5	s11		31		32	17	0		58		36
26		17	18	58	9	57	13	4	10	53		31		27		8		57		36
27		21		43	9	28	12	46	16	14		32		22		16		56		37
28	20	25	18	28	8	58	12	31	20	53	22	32	2	17	17	25	16	35	19	37
29		29		13	8	29	12	20	24	28		33		13		33		53		38
30		33	17	57	7	59	12	14	26	35		33		8		41		52		38
31	20	37	17	40	7	29	12	11	26	55	22	34	2	3	17	49	16	51	19	38

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1916

Eclipse of Sun February 3rd in $\approx 13^{\circ} 20'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° $\approx$ '	° $\approx$ '	° $\approx$ '	° $\approx$ '	° $\approx$ '	° $\approx$ '	° $\approx$ '	° $\approx$ '	° $\approx$ '	° $\approx$ '	° $\approx$ '
1	11 18	15 15	19 _R 24	11 18	10 _R 54	27 44	23 _R 25	15 26	1 0	8 5	
2	12 19	16 29	18 27	26 11	50	57	23 2	30	0	58	1
3	13 20	17 42	17 22	11 $\approx$ 0	46	28 9	22 39	33	57	7	58
4	14 21	18 55	16 13	25 37	42	21	22 16	36	55		55
5	15 22	20 8	15 19	♄56	39	34	21 53	40	54		52
6	16 23	21 21	13 48	23 53	35	46	21 29	43	52		49
7	17 23	22 34	12 37	7 ♀24	10 32	28 59	21 5	15 47	0	50	7 46
8	18 24	23 47	11 29	20 30	28	29 12	20 41	50	49		42
9	19 25	25 0	10 25	3 8 13	25	24	20 17	54	47		39
10	20 26	26 13	9 27	15 37	22	37	19 53	57	46		36
11	21 26	27 25	8 36	27 44	19	50	19 29	16 1	44		33
12	22 27	28 38	7 52	9 ♀41	16 0	♄ 3	19 5	4	42		30
13	23 28	29 50	7 16	21 31	13	16	18 41	8	41		27
14	24 28	1 ♀ 3	6 49	3 ♄20	10 10	0 29	18 18	16 11	0	39	7 23
15	25 29	2 15	6 29	15 11	7	42	17 54	15	38		20
16	26 29	3 27	6 16	27 9	5	55	17 31	18	36		17
17	27 30	4 39	6 12	9 ♀16	2 1	9	17 9	22	35		14
18	28 31	5 51	6 ♀14	21 35	0	22	16 46	25	33		11
19	29 31	7 3	6 23	4 ♄ 7	9 57	36	16 24	29	32		8
20	0 ♄31	8 15	6 38	16 53	55	49	16 2	32	31		4
21	1 32	9 27	6 59	29 52	9 53	2 2	15 41	16 35	0	29	7 1
22	2 32	10 39	7 25	13 $\approx$ 5	51	16	15 20	39	28	6	58
23	3 33	11 50	7 57	26 31	49	30	15 0	42	26		55
24	4 33	13 2	8 33	10 ♄ 9	47	43	14 40	45	25		52
25	5 33	14 13	9 13	23 59	45	57	14 21	49	24		49
26	6 34	15 25	9 58	7 ♄ 59	44 3	11	14 3	52	22		45
27	7 34	16 36	10 46	22 8	42	25	13 45	56	21		42
28	8 34	17 47	11 37	6 ♄25	9 41	3 38	13 28	16 59	0	20	6 39
29	9 35	18 58	12 32	20 48	9 39	3 52	13 11	17 2	0	19	6 36

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1916

Full Moon February 19th in Ω $29^{\circ} 31'$

Declination of the Planets

D	S	T	☉	♀	♂	♂	♂	♂	♂	♂	♂
			S	S	S	S	N	S	N	S	N
1	20	41	17 24	6 58	12 12	25 21	22 35	1 58	17 58	16 50	19 39
2		45	17 7	6 28		18 22	0 35	53	18 6	49	39
3		49	16 49	5 57		27 17	13 36	48	14	48	40
4		53	16 32	5 27		39 11	29 36	43	23	47	40
5		57	16 14	4 56		54 5	15 36	38	31	46	40
6	21	1	15 56	4 25	13 11	1 N 3	36	33	39	45	40
7	21	5	15 38	3 54	13 30	7 7	22 37	1 28	18 47	16 44	19 41
8		9	15 19	3 23		49 12	41 37	23	55	43	41
9		13	15 0	2 51	14 9	17 32	38	17	19 3	42	42
10		16	14 41	2 20		30 21	32 38	12	11	41	42
11		20	14 22	1 48		49 24	30 39	7	18	40	43
12		24	14 2	1 17	15 9	26 22	39	2	25	39	43
13		28	13 42	0 45		27 27	0 40	0 56	33	38	43
14	21	32	13 22	0 14	15 44	26 25	22 40	0 51	19 40	16 37	19 43
15		36	13 2	0 N 18	16 0	24 38	41	46	46	36	44
16		40	12 41	0 49		14 21	43 41	41	53	35	44
17		44	12 21	1 21		28 17	50 41	35	59	34	45
18		48	12 0	1 52		39 13	9 41	30	20 5	33	45
19		52	11 39	2 24		49 7	51 42	24	11	32	45
20		56	11 17	2 55		58 2	9 42	19	17	31	45
21	22	0	10 56	3 26	17 5	3 s 44	22 42	0 13	20 22	16 30	19 46
22		4	10 34	3 58		10 9	33 42	8	27	29	46
23		8	10 13	4 29		14 15	1 43	2	32	28	46
24		12	9 51	5 0		17 19	50 43	2	37	27	46
25		16	9 29	5 31		18 23	38 43	0 N 9	41	26	47
26		20	9 6	6 2		17 26	7 43	14	45	25	47
27		24	8 44	6 33		15 26	57 44	20	48	24	48
28	22	27	8 21	7 3	17 11	26 1	22 44	0 25	20 52	16 23	19 48
29	22	31	7 59	7 34	17 6	23 21	22 44	0 31	20 55	16 22	19 48

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1916

New Moon March 4th in ♈ 13° 35'

Longitude of the Planets

D	☉ ♈'	♀ ♈'	♂ ♈'	♂ ♈'	♂ ♈'	♂ ♈'	♂ ♈'	♂ ♈'	♂ ♈'	♂ ♈'	♂ ♈'
1	10 35	20 9	13 29	5 13	9 R38	4 6	12R55	17 5	0 R17	6 33	29
2	11 35	21 20	14 30	19 36	37	20	40	9	16	29	26
3	12 35	22 30	15 33	3 ♈52	36	34	26	12	15	26	23
4	13 35	23 41	16 38	17 56	35	48	12	15	14	23	20
5	14 35	24 51	17 45	1 ♈44	35 5	2 11	59	18	13	20	17
6	15 35	26 2	18 55	15 12	34	16	47	21	12	17	14
7	16 36	27 12	20 7	28 18	9 34	5 30	11 36	17 25	0 11	6 14	10
8	17 36	28 22	21 20	11 8 4	33	45	25	28	10	10	7
9	18 35	29 32	22 36	23 30	33	59	15	31	9	7	4
10	19 35	0 8 42	23 53	5 ♈39	33 6	13	6	34	8	4	1
11	20 35	1 51	25 12	17 37	33	27	10 58	37	7	1	57
12	21 35	3 1	26 32	29 28	D33	42	51	40	6 5	57	54
13	22 35	4 10	27 54	11 ♈17	33	56	44	43	5	54	51
14	23 35	5 19	29 18	23 10	9 33	7 10	10 39	17 46	0 4	5 51	48
15	24 35	6 28	0 ♈43	5 ♈10	34	25	34	49	3	48	45
16	25 34	7 37	2 9	17 24	34	39	29	52	2	45	42
17	26 34	8 46	3 37	29 53	35	53	26	55	1	42	38
18	27 34	9 55	5 6	12 ♈40	35 8	8	23	58	1	38	35
19	28 33	11 3	6 37	25 46	36	22	21 18	1	0	35	32
20	29 33	12 11	8 8	9 ♈10	37	37	20	3	29 59	32	29
21	0 ♈32	13 19	9 42	22 49	9 38	8 51	10 20	18 6	♈59	5 29	26
22	1 32	14 27	11 16	6 ♈42	39 9	5	D20	9	58	26	23
23	2 31	15 35	12 52	20 43	41	20	21	12	57	23	19
24	3 31	16 42	14 29	4 ♈49	42	34	23	14	57	19	16
25	4 30	17 50	16 8	18 58	43	49	25	17	56	16	13
26	5 30	18 57	17 48	3 ♈6	45 10	3	28	20	56	13	10
27	6 29	20 4	19 29	17 13	47	18	32	22	55	10	7
28	7 28	21 10	21 12	1 ♈17	9 49	10 32	10 36	18 25	29 55	5 7	4
29	8 28	22 17	22 56	15 18	51	47	42	28	54	4	0
30	9 27	23 23	24 41	29 14	53 11	1	47	30	54	0	57
31	10 26	24 29	26 28	13 ♈3	9 55	11 16	10 54	18 32	29 54	4 57	

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1916

Full Moon March 19th in η 28° 33'

Declination of the Planets

♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
1	22	35	7	36	8	4	17	0	19	12	22	45	0	37	20	58	16	21	19	49
2		39	7	13	8	34	16	52	13	56		45		42	21	0		20		49
3		43	6	50	9	4	16	42	7	57		45		48		3		19		49
4		47	6	27	9	34	16	32	1	41		45		54		5		18		49
5		51	6	4	10	4	16	19	4	N33		45		59		6		17		50
6		55	5	41	10	33	16	6	10	24		45	1	5		8		16		50
7	22	59	5	18	11	2	15	51	15	39	22	46	1	10	21	9	16	15	19	50
8	23	3	4	54	11	31	15	34	20	3		46		16		10		14		50
9		7	4	31	11	59	15	17	23	28		46		22		11		13		51
10		11	4	7	12	28	14	58	25	44		46		28		11		12		51
11		15	3	44	12	56	14	37	26	48		46		33		11		11		51
12		19	3	20	13	24	14	15	26	37		46		39		11		11		51
13		23	2	56	13	51	13	52	25	13		47		45		11		10		51
14	23	27	2	33	14	18	13	28	22	42	22	47	1	51	21	10	16	9	19	51
15		31	2	9	14	45	13	2	19	9		47		56		9		8		52
16		34	1	45	15	13	12	36	14	45		47	2	1		8		7		52
17		38	1	22	15	38	12	7	9	39		47		7		7		6		52
18		42	0	58	16	3	11	38	4	3		47		13		5		5		52
19		46	0	34	16	29	11	7	1	S51		47		19		4		4		53
20		50	0	11	16	54	10	35	7	47		47		25		2		4		53
21	23	54	0	N13	17	19	10	2	13	28	22	47	2	30	21	0	16	3	19	53
22		58	0	37	17	43	9	28	18	34		47		36	20	57		2		53
23	0	2	1	0	18	7	8	52	22	42		47		42		55		1		53
24		6	1	24	18	30	8	15	25	31		47		48		52		0		53
25		10	1	48	18	53	7	37	26	44		47		53		49	15	59		53
26		14	2	11	19	16	6	58	26	12		47		59		46		59		53
27		18	2	35	19	38	6	18	23	59		47	3	4		43		58		54
28	0	22	2	58	20	0	5	37	20	19	22	47	3	10	20	40	15	57	19	54
29		26	3	22	20	21	4	54	15	29		47		16		36		56		54
30		30	3	45	20	42	4	10	9	52		47		22		32		56		54
31	0	34	4	8	21	2	3	26	3	50	22	47	3	27	20	28	15	55	19	54

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1916

New Moon April 2nd in ♈ 12° 24'

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° γ'	° γ'	° γ'	° γ'	° γ'	° γ'	° γ'	° γ'	° γ'	° γ'	° γ'	° γ'
1	11 25	25 35	28 16	26 43	9 57	11 30	11 1	18 35	29 53	4 54		
2	12 24	26 41	0 7 5	10 7 10	59	11 45	9	37	53	51		
3	13 24	27 46	1 56	23 23	10 2	12 0	17	40	53	48		
4	14 23	28 51	3 49	6 8 20	4	12 14	26	42	53	44		
5	15 22	29 56	5 42	18 59	7	12 29	35	44	52	41		
6	16 21	1 II 1	7 38	1 II 21	10	12 43	45	47	52	38		
7	17 20	2 5 9	34 13	30 10	13	12 58	11 56	18 49	29 52	4 35		
8	18 19	3 9 11	32 25	27 16	13	12 12	12 7	51	52	32		
9	19 18	4 13 13	32 7 5	18 19	13	26 19	53	52	29			
10	20 17	5 17 15	32 19 6	22 13	41 31	55	52	25				
11	21 15	6 20 17	34 0 58	25 13	55 44	57	52	22				
12	22 14	7 23 19	37 13 0	28 14	10 58	59	52	19				
13	23 13	8 26 21	41 25 15	32 14	24 13 11	19 1	52	16				
14	24 12	9 28 23	47 7 50	10 35	14 39	13 26	19 3	29 52	4 13			
15	25 10	10 30 25	53 20 46	39 14	53 41	5	53	10				
16	26 9	11 32 27	59 4 5	43 15	7 56	7	53	7				
17	27 8	12 33 0 8	6 17 49	47 15	22 14 12	9	53	3				
18	28 6	13 34 2 14	1 53 50	50 15	36 28	10	53	0				
19	29 5	14 34 4 21	16 12 54	15 50	44	12	53	3 57				
20	0 8 3	15 34 6 28	0 40 59	16 5	15 1	14	54	54				
21	1 2	16 34 8 35	15 11 11	3	16 19	15 19	19 15	29 54	3 51			
22	2 0	17 33 10 40	29 39 7	16 33	37	17	55	47				
23	2 59	18 32 12 45	13 59 11	16 47	55	18	55	44				
24	3 57	19 31 14 48	28 10 16	17 2	16 13	20	55	41				
25	4 56	20 29 16 49	12 9 20	17 16	32	21	56	38				
26	5 54	21 26 18 48	25 57 25	17 30	52	23	56	35				
27	6 52	22 24 20 45	9 34 30	17 44	17 12	24	57	32				
28	7 51	23 20 22 38	23 1 11	34 17	58 17	32 19	25 29	58 3 28				
29	8 49	24 16 24 30	6 16 39	18 12	52	27	58	25				
30	9 47	25 12 26 17	19 21 11	44 18	26 18	13 19	28 29	59 3 22				

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1916

Full Moon April 18th in $\approx 28^{\circ} 6'$

Declination of the Planets

D	S	T	☉ N	♀ N	♂ S	♂ N	♂ N	♂ N	♂ N	♂ S	♂ N
1	0	38 4	31	21 22	2	40 2	17 22	47 3	33 20	24 15	54 19
2		41 4	55	41 1	53 8	13 13	47 47	39 39	20 20	54 54	54 54
3		45 5	18	22 0	1	5 13	40 47	44 44	16 16	53 53	54 54
4		49 5	40	18 0	17 18	23 23	47 47	50 50	11 11	52 52	54 54
5		53 6	3	36 0	N 33	22 11	47 47	56 56	6 6	51 51	55 55
6		57 6	26	53 1	24 24	52 52	47 47	4 2	1 1	51 51	55 55
7	1	1 6	49	23 10	2	15 25	21 22	47 4	7 19	56 15	50 19
8		5 7	11	26 3	8 26	35 35	47 47	13 13	51 51	50 50	55 55
9		9 7	34	41 4	0 25	35 35	47 47	18 18	46 46	49 49	55 55
10		13 7	56	56 4	54 54	23 27	47 47	24 24	40 40	48 48	55 55
11		17 8	18	24 11	5 48	20 17	46 46	29 29	35 35	47 47	55 55
12		21 8	40	25 6	43 43	16 14	46 46	35 35	29 29	47 47	55 55
13		25 9	2	38 7	38 38	11 26	46 46	40 40	23 23	46 46	55 55
14	1	29 9	23	24 51	8 33	6 5	22 22	46 4	46 19	17 15	46 19
15		33 9	45	25 3	9 28	0 19	46 46	52 52	11 11	45 45	55 55
16		37 10	6	15 10	23 23	5 s 37	46 46	58 58	4 4	45 45	55 55
17		41 10	27	26 11	17 17	11 26	45 45	5 3	18 18	58 44	55 55
18		45 10	49	36 12	12 12	16 50	45 45	9 9	51 51	44 44	55 55
19		49 11	9	46 13	5 5	21 23	45 45	14 14	45 45	43 43	55 55
20		52 11	30	55 13	58 58	24 41	45 45	19 19	38 38	43 43	55 55
21	1	56 11	50	26 4	14 49	26 22	22 22	45 5	24 18	31 15	42 19
22	2	0 12	11	12 15	39 39	26 16	45 45	30 30	24 24	42 42	55 55
23		4 12	31	20 16	28 28	24 23	44 44	35 35	17 17	41 41	54 54
24		8 12	51	27 17	15 15	21 0	44 44	40 40	9 9	41 41	54 54
25		12 13	10	33 18	0 0	16 26	44 44	46 46	2 2	40 40	54 54
26		16 13	30	39 18	43 43	11 3	44 44	51 51	17 17	54 40	54 54
27		20 13	49	44 19	24 24	5 14	43 43	57 57	46 46	39 39	54 54
28	2	24 14	8	26 49	20 3	0 N 45	22 22	43 6	2 17	39 15	39 19
29		28 14	27	53 20	39 39	6 30	42 42	7 7	31 31	39 39	54 54
30	2	32 14	45	26 57	21 12	12 5	22 22	42 6	13 13	17 15	23 19

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1916

New Moon May 2nd in γ $11^{\circ} 44'$

New Moon May 31st in Π $9^{\circ} 40'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° 8'	° II'	° 8'	° 8'	° 5'	° 7'	° 9'	° 11'	° 13'	° 15'	° 17'
1	10 45	26 7	28 2	2 13	11 49	18 40	18 34	19 29	29 59	3 19	19
2	11 44	27 1	29 43	14 53	54	54	18 56	30 0	0 0	0 15	15
3	12 42	27 55	1 II 21	27 19	59 19	8 19	18 18	31	1	12	12
4	13 40	28 49	2 55	9 II 33	12 5	22 19	40 32	32	2	9	9
5	14 38	29 41	4 25	21 36	10	35 20	2 33	33	3	6	6
6	15 36	0 33	5 51	3 30	15	49 20	25 34	34	3	3	3
7	16 34	1 25	7 13	15 19	12 21	20 3	20 48	19 35	0 43	0 0	0
8	17 32	2 16	8 31	27 6	26	17 21	12 36	36	5 2	56	56
9	18 30	3 6	9 45	8 57	32	30 21	35 36	36	6	53	53
10	19 28	3 55	10 54	20 58	37	44 21	59 37	37	7	50	50
11	20 26	4 43	12 0	3 12	43	57 22	23 38	38	8	47	47
12	21 24	5 31	13 1	15 47	49 21	11 22	48 39	39	9	44	44
13	22 22	6 18	13 58	28 45	55	24 23	13 39	39	10	41	41
14	23 20	7 3	14 50	12 10	13 1	21 38	23 38	19 40	0 11	2 37	37
15	24 18	7 48	15 38	26 2	7	51 24	3 40	40	12	34	34
16	25 15	8 33	16 21	10 20	13 22	4 24	29 41	41	13	31	31
17	26 13	9 16	16 59	24 58	19	17 24	54 41	41	15	28	28
18	27 11	9 58	17 33	9 48	25	30 25	20 41	41	16	25	25
19	28 9	10 39	18 2	24 43	31	44 25	46 42	42	17	22	22
20	29 6	11 19	18 26	9 34	38	57 26	13 42	42	18	18	18
21	0 II 4	11 57	18 46	24 13	13 44	23 10	26 40	19 42	0 19	2 15	15
22	1 2	12 35	19 1	8 37	50	23 27	7 42	42	21	12	12
23	1 59	13 11	19 11	22 43	57	35 27	34 42	42	22	9	9
24	2 57	13 47	19 16	6 31	14 3	48 28	1 42	42	23	6	6
25	3 55	14 20	19 16	20 1	10 24	1 28	29 42	42	25	3	3
26	4 52	14 53	19 12	3 15	16	14 28	56 42	42	26 1	59	59
27	5 50	15 24	19 4	16 14	23	26 29	24 42	42	28	56	56
28	6 47	15 54	18 51	28 59	14 30	24 39	29 52	19 42	0 29	1 53	53
29	7 45	16 22	18 34	11 33	36	51 0	21 42	42	31	50	50
30	8 43	16 48	18 14	23 55	43 25	3 0	49 41	41	32	47	47
31	9 40	17 13	17 50	6 II 8	14 50	25 16	1 18	19 41	0 34	1 43	43

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1916

Full Moon May 17th in η $26^{\circ} 13'$

Declination of the Planets

D	S T		⊙		♀		♂		D		h		u		♂		H		ψ	
			N		N		N		N		N		N		N		S		N	
1	2	36	15	4	27	0	21	44	16	57	22	42	6	18	17	14	15	38	19	54
2		40		22		2		12	20	59		42		23		6		38		54
3		44		40		4	22	39	24	0		41		28	16	58		37		53
4		48		57		6	23	2	25	51		41		34		49		37		53
5		52	16	14		6		23	26	27		40		39		40		37		53
6		56		31		7		42	25	49		40		44		32		37		53
7	2	59	16	48	27	7	23	59	24	0	22	40	6	49	16	23	15	36	19	53
8	3	3	17	5		6	24	13	21	9		40		54		14		36		53
9		7		21		5		25	17	25		39		59		5		36		52
10		11		37		3		35	12	56		39	7	4	15	55		36		52
11		15		52		1		42	7	52		38		9		46		36		52
12		19	18	7	26	58		48	2	22		38		14		36		36		52
13		23		22		55		52	3 s	24		37		19		27		35		52
14	3	27	18	37	26	52	24	53	9	12	22	37	7	24	15	17	15	35	19	52
15		31		51		48		53	14	45		36		29		7		35		51
16		35	19	5		44		51	19	40		36		34	14	58		35		51
17		39		19		39		48	23	30		35		38		48		35		51
18		43		32		34		43	25	50		35		43		37		35		51
19		47		46		28		36	26	21		34		48		27		35		50
20		51		58		22		28	24	57		34		53		17		35		50
21	3	55	20	11	26	16	24	19	21	51	22	33	7	57	14	6	15	35	19	50
22		59		23		9		8	17	26		33	8	2	13	56		35		50
23	4	3		34		3	23	55	12	8		32		7		45		35		49
24		7		46	25	55		42	6	21		32		12		35		35		49
25		10		57		48		27	0	24		31		16		24		35		49
26		14	21	7		40		11	5 N	27		31		20		13		35		49
27		18		17		32	22	55	10	57		30		25		2		35		48
28	4	22	21	27	25	24	22	37	15	53	22	30	8	29	12	51	15	35	19	48
29		26		37		15		19	20	3		28		34		39		35		48
30		30		46		7		0	23	17		28		38		28		35		48
31	4	34	21	55	24	58	21	40	25	25	22	27	8	43	12	17	15	35	19	47

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1916

New Moon June 30th in ϖ $8^{\circ} 19'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° Π'	° ♂'	° Π'	° Π'	° ♂'	° γ'	° ♀'	° ♂'	° ♂'	° ♂'	° ♂'
1	10 38	17 37	17 _R 24	18 11	14 57	25 28	1 47	19 _R 41	0 35	1 40	
2	11 35	17 58	16 55	0 ♂ 6	15 4	40 2	16	40	37	37	
3	12 32	18 18	16 24	11 56	11	52 2	45	40	38	34	
4	13 30	18 36	15 52	23 43	18 26	4 3	15	39	40	31	
5	14 27	18 52	15 18	5 ♀ 30	25	16 3	44	39	42	28	
6	15 25	19 5	14 45	17 21	32	28 4	14	38	43	24	
7	16 22	19 17	14 12	29 21	15 39	26 40	4 44	19 38	0 45	1 21	
8	17 20	19 27	13 39	11 _m 35	46	51 5	14	37	47	18	
9	18 17	19 35	13 8	24 8	54 27	3 5	45	36	48	15	
10	19 14	19 40	2 39	7 = 3	16 1	14 6	15	35	50	12	
11	20 12	19 43	12 12	20 25	8	26 6	46	35	52	9	
12	21 9	19 _R 44	11 48	4 ♀ 16	15	37 7	17	34	54	5	
13	22 6	19 42	11 28	18 35	23	48 7	48	33	56	2	
14	23 3	19 38	11 11	3 ♀ 17	16 30	27 59	8 19	19 32	0 57	0 59	
15	24 1	19 32	10 58	18 17	37	28 10	8 50	31	59	56	
16	24 58	19 23	10 49	3 ♀ 26	45	21 9	21	30 1	1	52	
17	25 55	19 12	10 44	18 34	52	32 9	53	29	3	49	
18	26 53	18 58	10 _D 44	3 ♂ 32	17 0	43 10	24	28	5	46	
19	27 50	18 42	10 48	18 14	7	53 10	56	26	7	43	
20	28 47	18 24	10 57	2 ♀ 33	15	29 4	11 28	25	9	40	
21	29 44	18 2	11 11	16 29	17 22	29 14	12 0	19 24	1 11	0 37	
22	0 ♂ 41	17 41	11 29	0 γ 2	30	24 12	32	23	13	33	
23	1 39	17 16	11 53	13 13	37	35 13	5	21	15	30	
24	2 36	16 49	12 20	26 4	45	45 13	37	20	17	27	
25	3 33	16 20	12 53	8 ♂ 39	53	55 14	10	19	19	24	
26	4 30	15 49	13 30	21 0	18 0	0 8 5	14 43	17	21	21	
27	5 28	15 17	14 11	3 ♀ 9	8	14 15	15	16	23	18	
28	6 25	14 44	14 57	15 10	18 16	0 24	15 48	19 14	1 25	0 14	
29	7 22	14 9	15 48	27 4	23	33 16	22	13	27	11	
30	8 19	13 34	16 42	8 ♂ 54	18 31	0 43	16 55	19 11	1 29	0 8	

D	S	T	○ N	♀ N	♀ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N
1	4	38	22	3	24	49	21	21	26	20	22	26	8	47	12	5	15	35	19	47
2		42		11		39		1	26	0		26		51	11	53		35		47
3		46		19		30	20	41	24	29		25		56		42		36		46
4		50		26		20		21	21	54		25	9	0		30		36		46
5		54		33		10		2	18	24		24		4		18		36		45
6		58		39		0	19	43	14	8		23		8		6		36		45
7	5	2	22	45	23	51	19	25	9	18	22	22	9	12	10	54	15	37	19	45
8		6		51		40		8	4	1		22		16		42		37		45
9		10		56		30	18	52	1	s33		21		20		29		37		44
10		14	23	1		20		38	7	12		20		24		17		37		44
11		17		5		10		25	12	43		19		28		5		38		43
12		21		9	22	59		14	17	48		19		32	9	52		38		43
13		25		13		49		4	22	4		18		36		40		38		42
14	5	29	23	16	22	38	17	56	25	3	22	17	9	40	9	27	15	38	19	42
15		33		19		28		50	26	20		16		44		14		39		42
16		37		21		17		46	25	41		15		47		1		39		42
17		41		23		7		44	23	7		14		51	8	48		40		41
18		45		25	21	56		44	18	59		14		54		35		40		41
19		49		26		46		45	13	45		13		58		22		41		40
20		53		27		35		48	7	53		12	10	2		9		41		40
21	5	57	23	27	21	24	17	53	1	47	22	11	10	6	7	56	15	41	19	39
22	6	1		27		14	18	0	4	N12		10		9		43		41		39
23		5		26		3		8	9	51		9		13		29		42		38
24		9		26	20	53		18	14	56		8		16		16		42		38
25		13		24		42		29	19	17		7		19		2		43		38
26		17		22		31		41	22	42		6		22	6	49		43		38
27		21		20		21		54	25	4		5		26		35		44		37
28	6	25	23	18	20	11	19	8	26	15	22	5	10	29	6	21	15	44	19	37
29		28		15		0		23	26	12		4		33		7		45		36
30	6	32	23	11	19	50	19	39	24	57	22	3	10	35	5	53	15	46	19	35

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1916

Eclipse of Sun July 30th in Ω $6^{\circ} 57'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° 5'	° 5'	° II'	° 5'	° 5'	° 8'	° m'	° w'	° Ω'	° w'	° Ω'
1	9 16	12R57	17 41	20 41	18 39	0 52	17 28	19R 9	1 31	0 5	
2	10 14	12 20	18 44	2 Ω28	47 1	1 18	2	8	33	2	
3	11 11	11 43	19 52	14 18	54	10 18	35	6	35	29 59	
4	12 8	11 5	21 3	26 13	19 2	19 19	9	4	37	W55	
5	13 5	10 28	22 19	8 m17	10	28 19	43	3	39	52	
6	14 3	9 51	23 38	20 33	18	36 20	17	1	42	49	
7	15 0	9 15	25 2	3 = 6	19 25	1 45	20 51	18 59	1 44	29 46	
8	15 57	8 39	26 29	15 59	33	53 21	25	57	46	43	
9	16 54	8 5	28 0	29 16	41 2	1 21	59	55	48	40	
10	17 51	7 31	29 35	12 m59	49	10 22	34	53	50	36	
11	18 49	7 0	1 = 14	27 9	57	17 23	8	51	52	33	
12	19 46	6 29	2 56	11 † 43	20 4	25 23	43	49	55	30	
13	20 43	6 14	4 41	26 38	12	33 24	18	47	57	27	
14	21 40	5 34	6 30	11 W46	20 20	2 40	24 52	18 45	1 59	29 24	
15	22 37	5 10	8 22	26 58	28	48 25	27	43 2	1	21	
16	23 35	4 48	10 16	12 w 6	36	55 26	2	41	3	17	
17	24 32	4 28	12 13	26 59	43 3	2 26	37	39	6	14	
18	25 29	4 10	14 13	11 X31	51	9 27	13	37	8	11	
19	26 26	3 55	16 14	25 39	59	16 27	48	35	10	8	
20	27 24	3 42	18 17	9 r 19	21 7	22 28	23	33	12	4	
21	28 21	3 31	20 22	22 34	21 14	3 29	28 59	18 30	2 14	29 1	
22	29 18	3 23	22 28	5 r 26	22	35 29	35	28	17	28 58	
23	0 Ω15	3 17	24 34	17 57	30	41 0 = 10		26	19	55	
24	1 13	3 14	26 41	0 II12	38	47 0	46	24	21	52	
25	2 10	3 D13	28 48	12 14	45	53 1	22	21	23	49	
26	3 7	3 14	0 Ω55	24 8	53	59 1	58	19	26	45	
27	4 5	3 17	3 2	5 = 57	22 14	4 2	34	17	28	42	
28	5 2	3 23	5 8	17 44	22 8	4 10	3 10	18 15	2 30	28 39	
29	5 59	3 31	7 13	29 32	16	15 3	47	12	32	36	
30	6 57	3 41	9 18	11 Ω23	24	20 4	23	10	34	33	
31	7 54	3 53	11 21	23 19	22 31	4 24	5 0	18 8	2 37	28 30	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1916

Eclipse of Moon July 14th in $\gamma 21^{\circ} 40'$

Declination of the Planets

D	S	T	☉ N	♀ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N
1	6	36	23	8	19	40	19	55	22	36	22	2	10	38	5	40	15	46	19	35
2		40		3		30	20	12	19	18		1		41		26		46		35
3		44	22	59		20		29	15	12		0		44		11		47		34
4		48		54		11		46	10	30	21	59		47	4	57		47		34
5		52		48		1	21	3	5	21		58		50		43		48		33
6		56		43	18	52		20	0	s 4		57		53		29		49		33
7	7	0	22	36	18	44	21	36	5	36	21	56	10	56	4	15	15	50	19	32
8		4		30		35		52	11	3		55		58		0		50		32
9		8		23		27	22	7	16	10		54	11	1	3	46		51		31
10		12		15		20		20	20	38		52		4		31		51		31
11		16		8		13		33	24	4		51		6		17		52		30
12		20		0		6		44	26	3		50		8		2		52		30
13		24	21	51		0		54	26	15		49		11	2	48		53		29
14	7	28	21	42	17	54	23	2	24	29	21	48	11	14	2	33	15	54	19	29
15		32		33		49		8	20	57		47		16		18		55		28
16		35		23		44		12	16	1		46		18		3		55		28
17		39		13		40		13	10	11		45		20	1	49		56		27
18		43		3		36		12	3	55		44		22		34		56		27
19		47	20	52		33		8	2	N20		43		24		19		57		26
20		51		41		30		2	8	17		42		26		4		58		26
21	7	55	20	30	17	28	22	53	13	40	21	41	11	28	0	49	15	59	19	25
22		59		18		26		41	18	18		39		30		34		59		25
23	8	3		6		24		27	22	0		38		32		19	16	0		24
24		7	19	55		23		10	24	38		37		34		4		1		24
25		11		41		23	21	50	26	6		36		36	0	s11		2		24
26		15		28		23		28	26	21		35		37		26		2		24
27		19		15		23		4	25	24		34		39		41		3		23
28	8	23	19	1	17	24	20	37	23	18	21	33	11	40	0	57	16	3	19	23
29		27	18	47		25		8	20	13		31		42	1	12		4		22
30		31		33		26	19	37	16	17		30		43		27		5		22
31	8	35	18	18	17	27	19	5	11	41	21	29	11	45	1	42	16	6	19	21

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1916

New Moon August 28th in $\text{m}\gamma$ $4^{\circ} 49'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
°	°	°	°	°	°	°	°	°	°	°	°	°
Ω'	Ω'	Ω'	Ω'	Ω'	Ω'	Ω'	Ω'	Ω'	Ω'	Ω'	Ω'	Ω'
1 8 52 4	8 13 23 5	23 22 39 4	29 5 36 18	5 2 39 28	26 23							
2 9 49 4	24 15 24 17	37 46	34 6 13 3	41 23								
3 10 47 4	42 17 23 0	2 54	38 6 50 1	43 20								
4 11 44 5	2 19 21 12	42 23 2	42 7 27 17	58 46 17								
5 12 42 5	23 21 17 25	39 9	46 8 4 56	48 14								
6 13 39 5	46 23 12 8	m 54 17	50 8 41 53	50 10								
7 14 37 6	11 25 6 22	30 23 24 4	53 9 18 17	51 2 52 28	7							
8 15 34 6	38 26 57 6	28 31	56 9 55 49	54 4								
9 16 32 7	6 28 48 20	47 39 5	0 10 32 46	56 1								
10 17 29 7	36 0m 37 5	v 26 46	3 11 10 44	59 27 58								
11 18 27 8	7 2 24 20	19 54	5 11 47 41	3 1 55								
12 19 24 8	39 4 10 5	20 24 1	8 12 25 39	3 51								
13 20 22 9	13 5 54 20	22 8	11 13 2 37	5 48								
14 21 19 9	48 7 37 5	14 24 15 5	13 13 40 17	34 3 7 27	45							
15 22 17 10	25 9 18 19	51 23	15 14 18 32	9 42								
16 23 15 11	2 10 58 4	5 30	17 14 56 30	12 39								
17 24 12 11	41 12 36 17	52 37	18 15 34 27	14 36								
18 25 10 12	21 14 13 1	8 13 44	20 16 12 25	16 32								
19 26 8 13	2 15 49 14	8 51	21 16 50 22	18 29								
20 27 6 13	44 17 23 26	41 58	22 17 28 20	20 26								
21 28 3 14	27 18 55 8	II 55 25	5 5 23 18	7 17 18 3	22 27 23							
22 29 1 15	11 20 27 20	55 12	24 18 45 15	24 20								
23 29 59 15	56 21 56 2	2 46 19	24 19 24 13	26 17								
24 0m 57 16	41 23 25 14	33 26	24 20 2 11	28 14								
25 1 55 17	28 24 52 26	21 33	R 24 20 41 9	30 10								
26 2 53 18	16 26 17 8	Ω 12 39	24 21 20 6	32 7								
27 3 51 19	4 27 41 20	10 46	24 21 59 4	34 4								
28 4 49 19	53 29 3 2	m 17 25	53 5 24 22	37 17 2 3	36 27 1							
29 5 47 20	43 0 24 14	34 59	23 23 16 16	59 38 26 58								
30 6 45 21	33 1 44 27	4 26 6	22 23 56 57	40 54								
31 7 43 22	24 3 1 9	46 26	13 5 21 24	35 16 55 3	42 26 51							

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1916

Full Moon August 13th in ♋ 20° 22'

Declination of the Planets

D	S	T	☉ N	☿ N	♀ N	♂ N	♂ N	♂ N	♂ S	♂ S	♂ S	♂ S
1	8	39	18 3	17 29	18 31	6 37	21 28	11 47	1 58	16 7	19 20	
2		42	17 48	31 17	56 1	14 14	27	48 2	13 7		20	
3		46	17 32	33 17	19 4	s 16	26	49 2	28 8		19	
4		50	17 16	35 16	41 9	41	24	50 2	44 9		19	
5		54	17 0	37 16	2 14	49	23	51 2	59 10		18	
6		58	16 44	40 15	22 19	23	22	52 3	14 10		18	
7	9	2	16 27	17 42	14 41	23 5	21 21	11 53	3 30	16 11	19 17	
8		6	16 10	45 14	0 25	31	20	54 3	45 12		17	
9		10	15 53	48 13	18 26	23	19	55 4	0 13		16	
10		14	15 36	50 12	35 25	27	18	56 4	16 13		16	
11		18	15 18	53 11	52 22	42	16	57 4	31 14		15	
12		22	15 0	55 11	9 18	22	15	57 4	47 15		15	
13		26	14 42	58 10	25 12	53	14	58 5	2 16		14	
14	9	30	14 24	18 0	9 42	6 41	21 13	11 58	5 17	16 16	19 14	
15		34	14 5	2 8	58 0	16	12	59 5	33 17		13	
16		38	13 46	4 8	14 6	N 0	10	59 5	48 17		13	
17		42	13 27	6 7	30 11	46	9 12	0 6	4 18		12	
18		46	13 8	8 6	46 16	48	8	0 6	19 19		12	
19		50	12 49	10 6	2 20	54	7	0 6	34 20		11	
20		53	12 29	11 5	19 23	55	6	0 6	50 20		11	
21	9	57	12 9	18 12	4 36	25 45	21 4	12 0	7 5	16 21	19 10	
22	10	1	11 49	13 3	52 26	21	3	0 7	20 22		10	
23		5	11 29	13 3	10 25	43	2	0 7	36 23		9	
24		9	11 8	13 2	27 23	56	1	0 7	51 23		9	
25		13	10 48	13 1	45 21	6	0	0 8	6 24		8	
26		17	10 27	13 1	3 17	24	20 58	0 8	22 24		8	
27		21	10 6	12 0	22 12	58	57 11	59 8	37 25		8	
28	10	25	9 45	18 11	0 s 19	7 59	20 56	11 59	8 52	16 26	19 8	
29		29	9 24	10 0	59 2	38	55	58 9	7 27		7	
30		33	9 2	8 1	39 2	s 53	54	58 9	22 27		7	
31	10	37	8 41	18 6	2 18	8 22	20 53	11 57	9 37	16 28	19 6	

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1916

New Moon September 27th in $\simeq 4^{\circ} 2'$

Longitude of the Planets

D	☉ ° ♈'	♀ ° ♀'	♂ ° ♂'	♂ ° ♂'	♂ ° ♂'	♂ ° ♂'	♂ ° ♂'	♂ ° ♂'	♂ ° ♂'	♂ ° ♂'	♂ ° ♂'	♂ ° ♂'
1	8 41	23 16	4 17	22 41	26 19	5 R19	25 14	16R53	3 44	26 48		
2	9 39	24 9	5 32	5 m49	25	18	25 53	51	46	45		
3	10 37	25 2	6 44	19 11	32	16	26 33	49	47	42		
4	11 36	25 55	7 55	2 † 48	38	14	27 12	47	49	38		
5	12 34	26 50	9 3	16 39	44	12	27 52	44	51	35		
6	13 32	27 44	10 9	0 v345	50	10	28 31	42	53	32		
7	14 30	28 40	11 14	15 4	26 57	5	7 29 11	16 40	3 55	26 29		
8	15 28	29 36	12 16	29 36	27 3	4	29 51	38	57	26		
9	16 27	0 32	13 15	14 w15	9	2	m31	36	58	23		
10	17 25	1 29	14 12	28 57	15 4	58	1 11	34 4	0	19		
11	18 23	2 27	15 6	13 x35	20	55	1 51	33	2	16		
12	19 22	3 24	15 57	28 2	26	52	2 31	31	3	13		
13	20 20	4 23	16 45	12 r11	32	48	3 11	29	5	10		
14	21 19	5 22	17 29	25 58	27 38	4	44 3 51	16 27	4 7	26 7		
15	22 17	6 21	18 9	9 8 20	43	40	4 32	25	8	4		
16	23 16	7 21	18 46	22 17	49	36	5 12	23	10	0		
17	24 14	8 21	19 18	4 II51	54	32	5 53	22	12	25 57		
18	25 13	9 21	19 46	17 6	28 0	27	6 33	20	13	54		
19	26 11	10 22	20 8	29 7	5	22	7 14	18	15	51		
20	27 10	11 23	20 26	10 58	10	17	7 55	17	16	47		
21	28 9	12 25	20 37	22 46	28 15	4	12 8 35	16 15	4 18	25 44		
22	29 7	13 27	20 43	4 35	20	7	9 16	14	19	41		
23	0 6	14 29	20 R42	16 30	25	2	9 57	12	20	38		
24	1 5	15 32	20 34	28 35	30 3	56	10 38	11	22	35		
25	2 4	16 35	20 19	10 m53	35	50	11 19	9	23	32		
26	3 3	17 38	19 57	23 25	40	44	12 1	8	25	28		
27	4 2	18 41	19 27	6 14	45	38	12 42	6	26	25		
28	5 1	19 45	18 50	19 17	28 49	3	32 13 23	16 5	4 27	25 22		
29	6 0	20 50	18 5	2 m35	54	26	14 5	4	28	19		
30	6 59	21 54	17 14	16 4	28 58	3	19 14 46	16 2	4 30	25 16		

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1916

Full Moon September 11th in $\propto$ 18° 23'

Declination of the Planets

D	S	T	☉ N	♀ N	♂ S	♂ S	♂ N	♂ N	♂ S	♂ S	♂ N
1	10	41	8	19	18	3	2	56	13	36	20
2		45	7	57		0	3	34	18	17	50
3		49	7	35	17	57	4	11	22	10	49
4		53	7	13		53	4	47	24	54	48
5		57	6	51		49	5	22	26	11	47
6	11	0	6	28		44	5	56	25	49	46
7	11	4	6	6	17	39	6	30	23	45	20
8		8	5	44		34	7	2	20	7	44
9		12	5	21		28	7	33	15	11	43
10		16	4	58		21	8	2	9	22	42
11		20	4	35		14	8	31	3	4	41
12		24	4	13		7	8	58	3	N18	40
13		28	3	50	16	59	9	23	9	21	39
14	11	32	3	27	16	51	9	47	14	47	20
15		36	3	4		42	10	9	19	21	37
16		40	2	40		33	10	29	22	49	36
17		44	2	17		23	10	47	25	6	35
18		48	1	54		13	11	2	26	7	34
19		52	1	31		2	11	15	25	52	33
20		56	1	7	15	51	11	26	24	25	32
21	12	0	0	44	15	40	11	33	21	55	20
22		4	0	21		28	11	37	18	29	30
23		8	0	S 3		15	11	38	14	17	29
24		11	0	26		2	11	35	9	29	28
25		15	0	49	14	49	11	29	4	14	27
26		19	1	13		35	11	18	1	S16	26
27		23	1	36		20	11	3	6	49	25
28	12	27	2	0	14	6	10	43	12	11	20
29		31	2	23	13	50	10	19	17	4	24
30	12	35	2	46	13	35	9	51	21	11	20

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1916

New Moon October 26th in η $2^{\circ} 44'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	°	°	°	°	°	°	°	°	°	°	°
1	7 58	22 59	16 R 16	29 43	29 3	3 R 13	15 28	16 R 1	4 31	25 13	
2	8 57	24 4	15 13	13 † 31	7	6 16	9 0	32		9	
3	9 56	25 9	14 7	27 26	11 2	59 16	51 15	59 33		6	
4	10 55	26 14	12 58	11 V 27	15	52 17	33 58	34		3	
5	11 54	27 20	11 48	25 35	19	45 18	15 57	35		0	
6	12 53	28 26	10 39	9 ~ 47	23	38 18	57 56	37	24	57	
7	13 53	29 32	9 33	24 3	29 27	2 31	19 39	15 55	4 38	24 54	
8	14 52	0 m 39	8 32	8 † 19	31	24 20	21 54	39		50	
9	15 51	1 45	7 38	22 32	34	16 21	3 53	40		47	
10	16 50	2 52	6 52	6 † 37	38	9 21	45 53	40		44	
11	17 50	3 59	6 15	20 29	41	1 22	27 52	41		41	
12	18 49	5 7	5 48	4 8 3	45 1	53 23	10 51	42		38	
13	19 48	6 14	5 33	17 18	48	45 23	52 50	43		35	
14	20 48	7 22	5 D 28	0 II 11	29 51	1 38	24 34	15 50	4 44	24 31	
15	21 47	8 30	5 35	12 44	54	30 25	17 49	45		28	
16	22 47	9 38	5 52	24 59	57	22 26	0 49	45		25	
17	23 46	10 46	6 19	6 ~ 59	0 0	14 26	42 48	46		22	
18	24 46	11 55	6 56	18 51	2	6 27	45 48	47		18	
19	25 46	13 4	7 41	0 0 39	5 0	58 28	8 48	47		15	
20	26 45	14 12	8 35	12 28	8	50 28	51 47	48		12	
21	27 45	15 21	9 35	24 25	0 10	0 41	29 34	15 47	4 49	24 9	
22	28 45	16 31	10 42	6 m 34	12	33 0 †	17 47	49		6	
23	29 45	17 40	11 54	18 59	15	25 1	0 47	50		3	
24	0 m 44	18 50	13 11	1 ~ 44	17	17 1	43 47	50	23	59	
25	1 44	19 59	14 32	14 48	19	9 2	26 47	51		56	
26	2 44	21 9	15 56	28 13	21	13 10	D 47	51		53	
27	3 44	22 19	17 24	11 m 54	23	29 53	3 53	52		50	
28	4 44	23 29	18 53	25 50	0 24	† 45	4 37	15 47	4 52	23 47	
29	5 44	24 40	20 25	9 † 55	26	36 5	20 47	52		44	
30	6 44	25 50	21 58	24 4	27	28 6	4 47	52		40	
31	7 44	27 1	23 33	8 V 16	0 29	29 20	6 47	15 47	4 53	23 37	

SIMPLIFIED SCIENTIFIC
EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1916

Full Moon October 11th in γ $17^{\circ} 50'$

Declination of the Planets

$\odot$	ST	$\odot$ S	η N	γ S	δ S	ϵ N	ζ N	δ S	θ S	ψ N
1	12 39 3	10	13 18 9	18	24 12	20 22	11 10	16 54	16 44	18 54
2	43 3	33	13 2 8	41	25 49	21	7	17 7	44	54
3	47 3	56	12 45 8	2	25 50	20	5	20	44	54
4	51 4	20	12 27 7	19	24 13	20	2	32	44	54
5	55 4	43	12 10 6	35	21 3	19	0	44	45	53
6	59 5	6	11 51 5	50	16 38	19	10 57	56	45	53
7	13 3 5	29	11 33 5	6	11 15	20 18	10 55	18 8	16 46	18 53
8	7 5	52	11 14 4	23	5 17	17	53	20	46	53
9	11 6	15	10 54 3	43	0 N 54	16	50	32	46	52
10	15 6	37	10 35 3	6	6 59	16	47	44	46	52
11	18 7	0	10 14 2	34	12 38	15	44	55	46	52
12	22 7	23	9 54 2	6	17 32	15	41	19 7	46	52
13	26 7	45	9 33 1	44	21 27	14	39	18	47	51
14	13 30 8	8 9	12 1	27	24 12	20 14	10 36	19 29	16 47	18 51
15	34 8	30 8	50 1	16	25 40	13	34	40	47	51
16	38 8	52 8	28 1	11	25 50	13	31	50	47	51
17	42 9	14 8	6 1	11	24 46	12	28	20 1	47	51
18	46 9	36 7	44 1	17	22 36	12	25	11	47	51
19	50 9	58 7	21 1	27	19 29	11	23	22	47	50
20	54 10	19 6	58 1	42	15 33	11	20	32	47	50
21	13 58	10 41 6	34 2	1	11 0	20 10	10 17	20 41	16 48	18 50
22	14 2 11	2 6	10 2	23	5 57	10	14	51	48	50
23	6 11	23 5	47 2	49	0 34	9	11 21	1	48	50
24	10 11	44 5	22 3	17	4 s 57	9	8	10	48	50
25	14 12	5 4	58 3	47	10 24	8	6	19	48	50
26	18 12	26 4	33 4	20	15 30	8	3	28	48	50
27	22 12	46 4	8 4	55	19 56	8	0	37	47	49
28	14 25	13 7 3	43 5	30	23 20	20 8 9	58	21 46	16 47	18 49
29	29 13	27 3	18 6	7	25 21	7	55	54	47	49
30	33 13	46 2	53 6	45	25 45	7	52	22 2	47	49
31	14 37	14 6 2	27 7	23	24 28	20 7 9	49	22 10	16 47	18 49

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1916

New Moon November 25th in $\uparrow$ $2^{\circ} 54'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° m'	° m'	° m'	° m'	° m'	° m'	° m'	° m'	° m'	° m'	° m'
1	8 44	28 11	25 9	22 26	0 30	29 _R 13	7 31	15 48	4 53	23 34	
2	9 44	29 22	26 45	6 $\approx$ 33	31	5 8	15 48	48	53	31	
3	10 44	0 $\approx$ 33	28 22	20 37	32	28 57	8 59	48	53	28	
4	11 45	1 44	29 59	4 $\times$ 36	32	49 9	43 49	49	53	24	
5	12 45	2 55	1 _m 37	18 30	33	41 10	27 49	49	53	21	
6	13 45	4 7	3 14	2 γ 17	33	34 11	11 50	50	54	18	
7	14 45	5 18	4 52	15 55	0 34	28 26	11 55	15 51	4 _R 54	23 15	
8	15 45	6 29	6 30	29 22	34	19 12	39 51	51	54	12	
9	16 46	7 41	8 7	12 δ 36	35	12 13	23 52	52	53	9	
10	17 46	8 53	9 45	25 34	35	4 14	7 53	53	53	5	
11	18 46	10 5	11 22	8 Π 15	36	27 57	14 52	54	53	2	
12	19 47	11 17	12 59	20 40	_R 36	50 15	36 54	53	22 59		
13	20 47	12 29	14 36	2 Σ 51	36	43 16	20 55	53	56		
14	21 48	13 41	16 13	14 50	0 37	27 37	17 5	15 56	4 53	22 53	
15	22 48	14 53	17 50	26 41	36	30 17	50 57	52	50		
16	23 48	16 5	19 26	8 Ω 28	35	23 18	34 58	52	47		
17	24 49	17 18	21 2	20 17	35	17 19	19 59	52	43		
18	25 50	18 30	22 38	2 μ 13	34	11 20	4 16	1 51	40		
19	26 50	19 43	24 13	14 22	33	5 20	49 2	51	37		
20	27 51	20 56	25 49	26 48	32	26 59	21 33	3 51	34		
21	28 51	22 8	27 24	9 $\approx$ 35	0 31	26 53	22 18	16 4	4 50	22 31	
22	29 52	23 21	28 59	22 47	30	47 23	3 6	50	27		
23	0 $\uparrow$ 53	24 34	0 $\uparrow$ 34	6 μ 23	29	42 23	48 7	49	24		
24	1 53	25 47	2 8	20 22	28	37 24	34 9	49	21		
25	2 54	27 0	3 43	4 $\uparrow$ 40	26	32 25	19 10	48	18		
26	3 55	28 13	5 17	19 11	25	27 26	4 12	47	15		
27	4 56	29 27	6 51	3 γ 48	23	22 26	49 13	47	12		
28	5 56	0 _m 40	8 26	18 25	0 21	26 17	27 35	16 15	4 46	22 8	
29	6 57	1 53	10 0	2 $\approx$ 57	19	13 28	20 17	45	5		
30	7 58	3 7	11 34	17 18	0 17	26 9	29 5	16 18	4 45	22 2	

SIMPLIFIED SCIENTIFIC
EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1916

Full Moon November 9th in γ $16^{\circ} 46'$

Declination of the Planets

D	S	T	☉ S	♀ N	♂ S	♂ S	♂ N	♂ N	♂ S	♂ S	♂ N
1	14	41	14 25	2 18	2 21	37 20	7 9	47	22 18	16 47	18 49
2		45	44 1	35 8	41 17	29 7	45	25	47		49
3		49	15 3	1 9	20 12	23 6	42	33	47		49
4		53	22 0	43 9	59 6	41 6	39	40	47		49
5		57	40 0	17 10	39 0	42 6	36	47	46		49
6	15	1	59 0	s 10	11 17	5 N 15	6	34	54	46	49
7	15	5	16 16	0 36	11 56	10 53	20 6	9 31	23 0	16 46	18 49
8		9	34 1	3 12	34 15	56 6	29	6	46		49
9		13	51 1	29 13	12 20	8 6	26	12	45		49
10		17	17 8	1 56	13 49	23 15	6	24	18	45	49
11		21	25 2	23 14	26 25	8 6	22	24	45		49
12		25	42 2	50 15	2 25	44 6	20	29	45		49
13		29	58 3	17 15	37 25	3 7	17	34	44		49
14	15	33	18 13	3 43	16 12	23 13	20 7	9 15	23 39	16 44	18 49
15		36	29 4	10 16	45 20	22 7	13	44	44		49
16		40	44 4	37 17	18 16	42 7	10	48	44		49
17		44	59 5	4 17	51 12	23 7	8	52	43		49
18		48	19 14	5 31	18 22	7 34	7	6	56	43	49
19		52	28 5	57 18	53 2	23 8	4	24 0	42		50
20		56	41 6	24 19	22 3	s 0	8	3	3	42	50
21	16	0	19 55	6 50	19 51	8 25	20 8	9 1	24 6	16 41	18 50
22		4	20 8	7 17	20 18	13 37	8 8	59	9	41	50
23		8	21 7	43 20	45 18	19 9	57	12	41		50
24		12	33 8	10 21	11 22	9 9	56	14	41		50
25		16	45 8	36 21	35 24	43 10	54	16	40		50
26		20	57 9	2 21	59 25	42 10	53	18	40		50
27		24	21 8	9 27	22 21	24 53	11	51	20	39	51
28	16	28	21 19	9 53	22 42	22 23	20 11	8 50	24 21	16 39	18 51
29		32	29 10	18 23	3 18	26 12	48	22	38		51
30	16	36	21 39	10 44	23 22	13 26	20 12	8 47	24 23	16 37	18 51

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1916

New Moon December 24th in $\text{vs } 2^{\circ} 22'$

Longitude of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC
EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1916

Full Moon December 9th in Π $17^{\circ} 6'$

Declination of the Planets

D	S T		☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
			S	S	S	S	S	N	N	N	N	N	N	N	N	N	N	N	N	N
1	16	40	21	49	11	9	23	40	7	47	20	13	8	46	24	23	16	36	18	51
2		43		58	11	34		56	1	51		13		45		24		36		51
3		47	22	6	11	58	24	12	4	N 4		14		43		24		35		52
4		51		15	12	23		26	9	42		14		42		23		35		52
5		55		23	12	47		39	14	47		15		41		23		34		52
6		59		30	13	10		50	19	7		16		41		22		34		52
7	17	3	22	37	13	34	25	0	22	29	20	17	8	40	24	21	16	33	18	53
8		7		43	13	57		9	24	41		17		40		20		32		53
9		11		50	14	20		17	25	39		18		39		18		31		53
10		15		55	14	43		23	25	19		19		39		16		31		53
11		19	23	0	15	5		28	23	48		20		38		14		30		54
12		23		5	15	27		31	21	14		20		38		11		30		54
13		27		9	15	48		33	17	47		21		37		9		29		54
14	17	31	23	13	16	9	25	33	13	39	20	22	8	37	24	6	16	28	18	54
15		35		17	16	30		32	8	59		23		36		2		27		55
16		39		20	16	50		29	3	58		24		36	23	59		27		55
17		43		22	17	10		25	1	s 15		25		36		55		26		55
18		47		24	17	30		19	6	33		25		36		51		25		55
19		51		25	17	49		12	11	43		26		37		46		24		56
20		54		26	18	7		4	16	32		27		37		42		24		56
21	17	58	23	27	18	25	24	53	20	41	20	28	8	37	23	37	16	23	18	56
22	18	2		27	18	43		42	23	48		29		37		32		22		56
23		6		27	19	0		28	25	30		30		38		26		21		57
24		10		26	19	17		14	25	27		31		38		20		20		57
25		14		24	19	33	23	58	23	33		32		39		14		19		58
26		18		23	19	48		40	20	0		33		39		8		19		58
27		22		20	20	3		21	15	8		34		40		2		18		58
28	18	26	23	18	20	18	23	1	9	27	20	35	8	41	22	55	16	17	18	58
29		30		14	20	32	22	40	3	22		36		42		48		16		59
30		34		11	20	45		18	2	N 43		37		43		40		15		59
31	18	38	23	7	20	58	21	55	8	32	20	38	8	44	22	33	16	14	19	0

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5565	.3522	.0649	8935	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	75	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5695	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9703	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3876	.0828	.9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2993	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0698
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0833	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1805	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	53	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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EPHEMERIS OF PLUTO FOR 1917

Date	Long.	Dec.	Date	Long.	Dec.
January 30	2° ☐ 40'R	18° N 34'	July 29	4° ☐ 39'	18° N 51'
February 28	2° ☐ 20'	18° N 39'	August 28	5° ☐ 12'	18° N 49'
March 31	2° ☐ 20'D	18° N 44'	September 27	5° ☐ 28'	18° N 47'
April 30	2° ☐ 40'	18° N 48'	October 27	5° ☐ 24'R	18° N 46'
May 30	3° ☐ 15'	18° N 51'	November 26	5° ☐ 0'	18° N 46'
June 29	3° ☐ 57'	18° N 52'	December 26	4° ☐ 25'	18° N 48'

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SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1917

Eclipse of Sun January 23rd in $\approx 2^{\circ} 56'$

Longitude of the Planets

D	☉ ° W'	♀ ° I'	♂ ° W'	♂ ° P'	♂ ° S'	♂ ° P'	♂ ° W'	♂ ° W'	♂ ° S'	♂ ° W'
1	10 32	12 30	29 46	22 50	28R27	25 39	23 43	17 35	4 R 7	20 20
2	11 33	13 53	0 $\approx$ 53	5 8 54	22	42 24	30 38	5		17
3	12 34	15 8	1 56	18 41	18	45 25	17 41	4		14
4	13 35	16 22	2 52	1 II 12	13	47 26	4 44	2		11
5	14 36	17 37	3 42	13 32	8	51 26	51 47	1		8
6	15 37	18 52	4 24	25 41	3	54 27	38 50	3	59	4
7	16 38	20 6	4 58	7 S 42	27 59	25 57	28 25	17 53	3	57 20 1
8	17 40	21 21	5 22	19 36	54 26	1 29	12 56	56	19	58
9	18 41	22 36	5 37	1 S 27	49	5 29	59 18	0	54	55
10	19 42	23 51	5 R 40	13 15	44	9 0 $\approx$ 46	3	53		52
11	20 43	25 5	5 31	25 3	39	13 1	33 6	51		43
12	21 44	26 20	5 11	6 m 54	34	18 2	20 9	49		45
13	22 45	27 35	4 39	18 51	30	22 3	7 12	48		42
14	23 46	28 50	3 56	0 = 58	27 25	26 27	3 54	18 15	3	46 19 39
15	24 47	0 W 4	3 3	13 19	20	32 4	41 19	44		36
16	25 48	1 19	2 0	25 57	15	37 5	29 22	43		33
17	26 50	2 34	0 51	8 m 57	10	43 6	16 25	41		30
18	27 51	3 49	29 W 9	22 22	5	48 7	3 29	39		27
19	28 52	5 4	28 19	6 † 14	0	54 7	50 32	38		23
20	29 53	6 19	27 1	20 33	26 55	27 0	8 38	35	36	20
21	0 $\approx$ 54	7 34	25 45	5 W 16	26 50	27 6	9 25	18 39	3	34 19 17
22	1 55	8 48	24 34	20 17	45	12 10	12 42	33		13
23	2 56	10 3	23 28	5 $\approx$ 30	40	18 11	0 45	31		10
24	3 57	11 18	22 30	20 44	35	25 11	47 49	29		7
25	4 58	12 33	21 39	5 † 49	30	32 12	34 52	27		4
26	5 59	13 48	20 58	20 37	26	39 13	22 56	26		1
27	7 0	15 3	20 25	5 P 0	21	46 14	9 59	24	18	58
28	8 1	16 18	20 1	18 57	26 16	27 53	14 56	19 2	3	22 18 54
29	9 2	17 32	19 46	2 8 27	11	28 0	15 44	6	21	51
30	10 3	18 47	19 39	15 31	6	8 16	31 9	19		48
31	11 4	20 2	19 D 40	28 12	26 2	28 15	17 19	19 13	3	17 18 43

Calculated for Mean Noon at Greenwich

January, 1917

Eclipse of Moon January 8th in $\varnothing$ $17^{\circ} 40'$

Declination of the Planets

D	S	T	○	S	g	S	g	S	Δ	N	h	N	z	N	δ	S	μ	S	ψ	N
1	18	42	23	2	21	10	21	31	13	47	20	39	8	45	22	25	16	13	19	0
2		46	22	57		21		6	18	17		40		46		17		12		0
3		50		51		32	20	42	21	51		41		48		9		11		1
4		54		45		42		17	24	18		42		49		0		10		1
5		58		39		52	19	53	25	33		43		50	21	51		9		2
6	19	1		32	22	1		29	25	33		44		51		42		8		2
7	19	5	22	26	22	9	19	6	24	21	20	45	8	53	21	33	16	7	19	2
8		9		17		17	18	44	22	2		46		55		23		6		2
9		13		9		24		24	18	48		47		57		13		5		3
10		17		6		31		5	14	50		48		59		3		4		3
11		21	21	51		36	17	49	10	17		50	9	0	20	53		3		4
12		25		42		41		36	5	22		51		2		42		2		4
13		29		32		46		25	0	13		52		4		32		1		5
14	19	33	21	21	22	49	17	18	4	s59	20	53	9	6	20	21	16	0	19	5
15		37		11		52		13	10	6		54		8		9	15	59		6
16		41		0		55		11	14	56		55		10	19	58		58		6
17		45	20	48		56		11	19	14		56		13		46		57		6
18		49		36		57		14	22	41		57		15		34		56		6
19		53		24		57		20	24	58		58		17		22		55		7
20		57		11		57		27	25	42		59		19		10		54		7
21	20	1	19	58	22	56	17	35	24	41	21	0	9	22	18	57	15	53	19	8
22		5		44		54		45	21	53		1		25		45		52		8
23		9		31		51		56	17	31		2		27		32		51		9
24		12		16		48	18	7	12	1		3		30		19		50		9
25		16		2		44		18	5	51		4		32		5		49		10
26		20	18	47		39		30	0	N31		5		34	17	52		48		10
27		24		82		34		41	6	40		6		38		38		47		10
28	20	28	18	16	22	28	18	53	12	18	21	7	9	40	17	24	15	46	19	10
29		32		0		21	19	4	17	9		8		43		10		45		11
30		36	17	44		14		14	21	2		9		46	16	56		44		11
31	20	40	17	28	22	5	19	24	23	48	21	10	9	49	16	41	15	43	19	12

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1917

New Moon February 21st in ♋ 2° 18'

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	12 5	21 17	19 49	10 35	25 57	28 23	18 6	19 16	3 16	18 42	
2	13 6	22 32	20 4	22 44	53	31 18	53	20	14	39	
3	14 6	23 47	20 26	4 42	48	39 19	41	23	12	36	
4	15 7	25 2	20 53	16 34	43	48 20	28	27	11	32	
5	16 8	26 17	21 26	28 23	39	56 21	16	30	9	29	
6	17 9	27 31	22 4	10 11	35	29 5	22 3	34	7	26	
7	18 10	28 46	22 46	22 0	25 30	29 13	22 51	19 37	3 6	18 23	
8	19 10	0 1	23 32	3 53	26	22 23	38	41	4	19	
9	20 11	1 16	24 22	15 51	22	31 24	25	44	3	16	
10	21 12	2 31	25 15	27 56	17	40 25	13	47	1	13	
11	22 12	3 46	26 12	10 10	13	49 26	0	51 2	59	10	
12	23 13	5 1	27 11	22 35	9	59 26	48	54	58	7	
13	24 14	6 15	28 13	5 14	5 0	8 27	35	58	56	4	
14	25 14	7 30	29 18	18 11	25 1	0 18	28 23	20 1	2 55	18 0	
15	26 15	8 45	0 25	1 27	24 57	28 29	10	5	53	17 57	
16	27 15	10 0	1 34	15 6	54	37 29	58	8	52	54	
17	28 16	11 15	2 45	29 10	50	47 0	45	12	50	51	
18	29 16	12 30	3 57	13 36	46	57 1	32	15	49	48	
19	0 17	13 45	5 12	28 25	43 1	8 2	20	19	47	45	
20	1 17	15 0	6 28	13 28	39	18 3	7	22	46	41	
21	2 18	16 14	7 46	28 40	24 36	1 28	3 55	20 26	2 44	17 38	
22	3 18	17 29	9 5	13 49	33	39 4	42	29	43	35	
23	4 19	18 44	10 26	28 45	29	50 5	30	32	42	32	
24	5 19	19 59	11 48	13 21	26 2	0 6	17	36	40	29	
25	6 19	21 14	13 11	27 30	23	11 7	4	39	39	26	
26	7 20	22 28	14 36	11 8 9	20	22 7	52	43	37	22	
27	8 20	23 43	16 2	24 20	17	33 8	39	46	36	19	
28	9 20	24 58	17 29	7 11 4	24 15	2 44	9 26	20 49	2 35	17 16	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1917

Full Moon February 7th in Ω $18^{\circ} 10'$

Declination of the Planets

D	S	T	☉ S	♀ S	♂ S	♂ N	♂ N	♂ N	♂ S	♂ S	♂ N
1	20	44	17 11	21 57	19 34	25 21	21 11	9 52	16 27	15 41	19 12
2		48	16 54	47	43	25 39	12	56	12	40	12
3		52	36	37	51	24 44	13	59	15 57	39	13
4		56	18	26	58	22 43	14 10	2	42	38	13
5	21	0	0	15 20	4	19 43	15	5	27	37	14
6		4	15 42	3	9	15 56	16	8	11	36	14
7	21	8	15 24	20 50	20	14 11 32	21 17	10 12	14 56	15 35	19 14
8		12	5	37	17	6 41	18	15	40	34	14
9		16	14 46	23	19	1 35	19	18	24	33	15
10		19	26	9	20	3 s 37	19	21	8	32	15
11		23	7 19	54	20	8 45	20	25 13	52	31	16
12		27	13 47	38	19	13 36	21	29	35	30	16
13		31	27	22	17	17 59	22	32	19	28	17
14	21	35	13 7	19 5	20	13 21 37	21 23	10 36	13 2	15 27	19 17
15		39	12 46	18 48	8	24 14	24	39	12 46	26	17
16		43	26	30	2	25 31	24	43	29	25	17
17		47	5	11 19	55	25 14	25	47	12	24	18
18		51	11 44	17 53	46	23 16	26	50 11	55	23	18
19		55	23	33	37	19 41	27	54	38	22	19
20		59	1	13	25	14 45	27	58	20	21	19
21	22	3	10 39	16 53	19	13 8 51	21 28	11 2	11 3	15 20	19 20
22		7	18	32	0	2 29	28	6	10 45	19	20
23		11	9 56	10 18	45	3 N 56	29	9	28	17	20
24		15	34 15	49	28	9 59	30	13	10	16	20
25		19	12	26	11	15 20	31	17 9	52	15	21
26		23	8 49	4 17	52	19 42	31	21	34	14	22
27		26	27 14	40	32	22 55	32	25	16	13	22
28	22	30	8 4	14 17	17	11 24 52	21 32	11 29	8 58	15 12	19 22

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1917

New Moon March 23rd in Υ $2^{\circ} 17'$

Longitude of the Planets.

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	10 20	26 13	18 57	19 27	24 R 12	2	56 10	14 20	53 2	R 34	17 13
2	11 21	27 28	20 26	1 33	9 3	7	11 1	56	32		10
3	12 21	28 42	21 57	13 28	7	18	11 48	59	31		7
4	13 21	29 57	23 28	25 17	5	30	12 35	21	2	30	3
5	14 21	1 12	25 1	7 3	2	42	13 23	6	29		0
6	15 21	2 27	26 35	18 52	1	53	14 10	9	28	16	57
7	16 21	3 41	28 10	0 45	23 58	4	5 14	57	21 12	2	26 16
8	17 21	4 56	29 46	12 44	56	17	15 44	15	25		51
9	18 21	6 11	1 24	24 53	54	29	16 31	19	24		48
10	19 21	7 25	3 2	7 10	53	41	17 19	22	23		44
11	20 21	8 40	4 42	19 38	51	53	18 6	25	22		41
12	21 21	9 55	6 22	2 17	49 5	5	18 53	28	21		38
13	22 20	11 9	8 4	15 7	48	18	19 40	31	20		35
14	23 20	12 24	9 48	28 10	23 47	5	30 20	27 21	34 2	19	16 31
15	24 20	13 39	11 32	11 28	45	42	21 14	37	18		28
16	25 20	14 53	13 17	25 2	44	55	22 1	40	17		25
17	26 19	16 8	15 4	8 54	43 6	8	22 48	43	17		22
18	27 19	17 23	16 52	23 4	42	20	23 35	46	16		19
19	28 19	18 37	18 41	7 32	42	33	24 22	49	15		16
20	29 18	19 52	20 32	22 15	41	46	25 9	52	14		12
21	0 18	21 6	22 24	7 7	23 40	6	58 25	56 21	55 2	13	16 9
22	1 17	22 21	24 17	22 1	40 7	11	26 43	58	13		6
23	2 17	23 36	26 11	6 49	40	24	27 29	22	1	12	3
24	3 16	24 50	28 6	21 20	39	37	28 16	4	11		0
25	4 16	26 5	0 3	5 29	39	50	29 3	7	11	15	57
26	5 15	27 19	2 1	19 12	D 39 8	4	29 50	9	10		53
27	6 15	28 34	4 0	2 27	39	17	0 36	12	10		50
28	7 14	29 48	6 0	15 16	23 40	8	30 1	23 22	15 2	9	15 47
29	8 13	1 3	8 1	27 42	40	43	2 10	17	9		44
30	9 13	2 17	10 3	9 51	40	57	2 56	20	8		41
31	10 12	3 32	12 6	21 47	23 41	9	10 3	43 22	23 2	8	15 38

Calculated for Mean Noon at Greenwich

Full Moon March 8th in $\text{mg } 17^{\circ} 21'$

Declination of the Planets

D	ST	S	S	S	N	N	N	S	S	Ψ
1	22 34	7 41	13 53	16 48	25 32	21 33	11 33	8 40	15 11	19 23
2	38	7 19	13 29	16 24	24 57	33	37	22	10	23
3	42	6 56	13 4	15 59	23 13	34	41	4	9	23
4	46	6 33	12 39	15 32	20 30	34	45	7 45	8	23
5	50	6 10	12 14	15 5	16 56	35	50	27	7	24
6	54	5 46	11 48	14 36	12 43	35	54	9	6	24
7	22 58	5 23	11 22	14 5	8 0	21 36	11 58	6 50	15 5	19 24
8	23 25	0 10	56 13	34 2	57	36	12 2	32	4	24
9	6 4	36 10	29 13	1 2	8 15	37	6	13	3	25
10	10 4	13 10	2 12	27 7	25	37	10 5	54	2	25
11	14 3	49 9	35 11	51 12	22	37	15	36	1	25
12	18 3	26 9	8 11	15 16	52	37	19	17	0	25
13	22 3	2 8	40 10	37 20	40	38	23 4	58	14 59	26
14	23 26	2 39	8 12	9 57	23 30	21 38	12 27	4 39	14 58	19 26
15	30 2	15 7	44 9	17 25	7	39	32	20	57	26
16	34 1	51 7	16 8	35 25	16	39	36	1	56	26
17	37 1	28 6	47 7	53 23	53	39	40 3	43	55	27
18	41 1	4 6	19 7	9 20	58	39	44	24	54	27
19	45 0	40 5	50 6	23 16	41	40	49	5	53	27
20	49 0	16 5	21 5	37 11	21	40	53 2	46	52	27
21	23 53	0 N 7	4 52	4 50	5 18	21 40	12 58	2 27	14 51	19 28
22	57 0	31 4	22 4	1 1	N 2	40 13	2	8	51	28
23	0 1	0 55	3 53	3 11	7 15	40	6 1	49	50	28
24	5 1	18 3	23 2	21 12	58	40	10	30	49	28
25	9 1	42 2	54 1	29 17	50	40	15	11	48	28
26	13 2	6 2	24 0	36 21	36	40	19 0	52	47	28
27	17 2	29 1	54 0	N 17	24 4	41	24	33	46	29
28	0 21	2 53	1 24	1 12	25 12	21 41	13 28	0 14	14 45	19 29
29	25 3	16 0	55 2	7 25	1	41	33	N 5	44	29
30	29 3	39 0	25 3	2 23	37	41	37	24	43	29
31	0 33	4 3	0 N 5	3 58	21 11	21 41	13 41	0 43	14 42	19 29

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1917

New Moon April 21st in γ $0^{\circ} 48'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂									
	°	′	°	′	°	′	°	′	°	′	°	′									
1	11	11	4	46	14	9	3	36	23	42	9	23	4	29	22	25	2	R	7	15	34
2	12	10	6	1	16	13	15	24	42		37	5	16		28				7		31
3	13	9	7	15	18	17	27	14	43		50	6	2		30				7		28
4	14	8	8	29	20	21	9	m 12	44	10	4	6	49		33				6		25
5	15	7	9	44	22	25	21	20	45		18	7	35		35				6		22
6	16	6	10	58	24	28	3	= 40	47		31	8	21		38				6		18
7	17	5	12	12	26	31	16	12	23	48	10	45	9	8	22	40	2		6	15	15
8	18	4	13	27	28	32	28	58	49		59	9	54		42				6		12
9	19	3	14	41	0	8	32	11	m 56	51	11	12	10	40	45				5		9
10	20	2	15	55	2	30	25	6	52		26	11	26		47				5		6
11	21	1	17	10	4	26	8	† 26	54		40	12	12		49				5		3
12	22	0	18	24	6	19	21	57	56		54	12	58		51				5	14	59
13	22	58	19	38	8	9	5	v 39	58	12	8	13	44		53		D		5		56
14	23	57	20	53	9	56	19	30	24	0	12	22	14	31	22	55	2		5	14	53
15	24	56	22	7	11	39	3	~ 33	2		36	15	16		58				5		50
16	25	55	23	21	13	19	17	47	4		50	16	2	23	0				5		47
17	26	53	24	35	14	54	2	✕ 9	7	13	4	16	48		2				6		44
18	27	52	25	50	16	26	16	37	9		18	17	34		3				6		40
19	28	50	27	4	17	53	1	γ 5	12		32	18	20		5				6		37
20	29	49	28	18	19	15	15	29	15		46	19	6		7				6		34
21	0	8	48	29	32	20	32	29	24	17	14	0	19	51	23	9	2		6	14	31
22	1	46	0	8	46	21	45	13	8	36		14	20	37	11				7		28
23	2	45	2	0	22	53	27	10	23		28	21	23		12				7		25
24	3	43	3	15	23	55	10	II 21	26		42	22	8		14				7		21
25	4	41	4	29	24	52	23	9	29		56	22	54		16				8		18
26	5	40	5	43	25	45	5	☿ 36	33	15	11	23	39		17				8		15
27	6	38	6	57	26	31	17	46	36		25	24	25		19				9		12
28	7	37	8	11	27	13	29	44	24	39	15	39	25	10	23	20	2		9	14	8
29	8	35	9	25	27	49	11	♂ 35	43		53	25	55		22				10		5
30	9	33	10	39	28	19	23	24	24	47	16	7	26	41	23	23	2		10	14	2

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1917

Full Moon April 7th in $\approx 17^{\circ} 5'$

Declination of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1917

New Moon May 21st in γ $29^{\circ} 50'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	10 31	11 53	28 44	5 17	24 50	16 22	27 26	23 25	2 11	13 59	
2	11 29	13 7	29 4	17 19	54	36	28 11	26	12	56	
3	12 28	14 21	29 18	29 33	58	50	28 56	27	12	53	
4	13 26	15 35	29 26	12 1	25 2	17 4	29 41	28	13	49	
5	14 24	16 49	29 30	24 47	6	19 0	8 26	30	14	46	
6	15 22	18 3	29 28	7 49	10	33 1	11	31	14	43	
7	16 20	19 17	29 21	21 8	25 15	17 47	1 56	23 32	2 15	13 40	
8	17 18	20 31	29 10	4 41	19 18	1 2	41	33	16	37	
9	18 16	21 45	28 54	18 25	23	16 3	26	34	17	34	
10	19 14	22 59	28 34	2 19	28	30 4	11	35	18	30	
11	20 12	24 13	28 10	16 19	33	44 4	56	36	19	27	
12	21 10	25 26	27 43	0 24	37	58 5	40	36	20	24	
13	22 8	26 40	27 13	14 32	42	19 13	6 25	37	21	21	
14	23 5	27 54	26 41	28 42	25 47	19 27	7 10	23 38	2 22	13 18	
15	24 3	29 8	26 8	12 52	52	41 7	54	39	23	15	
16	25 1	0 22	25 33	27 1	57	55 8	39	39	24	11	
17	25 59	1 36	24 58	11 5	26 2	20 9	9 23	40	25	8	
18	26 57	2 50	24 23	25 1	7	24 10	7	40	26	5	
19	27 54	4 3	23 49	8 46	12	38 10	52	41	27	2	
20	28 52	5 17	23 16	22 18	17	52 11	36	41	28	12 59	
21	29 50	6 31	22 45	5 32	26 23	21 6	12 20	23 42	2 29	12 56	
22	0 48	7 45	22 17	18 29	28	20 13	4	42	31	52	
23	1 45	8 59	21 51	1 8	34	34 13	48	42	32	49	
24	2 43	10 12	21 29	13 30	39	48 14	32	43	33	45	
25	3 41	11 26	21 10	25 38	45	22 3	15 16	43	35	42	
26	4 38	12 40	20 55	7 36	51	17 16	0	43	36	40	
27	5 36	13 53	20 44	19 28	56	31 16	44	43	37	37	
28	6 33	15 7	20 38	1 18	27 2	22 45	17 28	23 43	2 39	12 33	
29	7 31	16 21	20 35	13 12	8	59 18	12	43	40	30	
30	8 28	17 35	20 38	25 15	14	13 18	56	43	42	37	
31	9 26	18 48	20 44	7 31	27 20	23 27	19 39	23 43	2 43	12 24	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1917

Full Moon May 7th in $m. 16^{\circ} 20'$

Declination of the Planets

D	S	T	O N	♀ N	♂ N	Δ N	♂ N	Π N	δ N	⋈ S	Ψ N
1	2	35	14 59	14 41	22 23	5 49	21 30	15 55	10 2	14 23	19 29
2		39	15 17	15 5	22 22	0 47	30	59	19	23	29
3		43	35	30 22	18 4	s21	29 16	3	35	23	29
4		47	53	53 22	11 9	25	29	7	52	23	29
5		51	16 10	16 16	22 3	14 13	28	11 11	8	22	28
6		55	27	39 21	52 18	28	27	14	24	22	28
7	2	59	16 44	17 2	21 39	21 52	21 26	16 19	11 41	14 21	19 28
8	3	2	17 0	24 21	24 24	8	26	22	56	21	28
9		6	17	45 21	7 24	59	25	27 12	12	21	28
10		10	33 18	6 20	48 24	17	24	31	28	21	28
11		14	48	27 20	27 22	3	23	35	44	20	27
12		18	18 4	47 20	5 18	28	23	39	59	20	27
13		22	19 19	7 19	42 13	49	22	43	13 14	20	27
14	3	26	18 33	19 26	19 18	8 24	21 21	16 47	13 30	14 20	19 27
15		30	48	44 18	53 2	34	20	51	45	19	26
16		34	19 2	20 2	18 28	3 N22	19	55 14	0	19	26
17		38	16	20 18	2 9	7	18	59	14	19	26
18		42	29	37 17	37 14	20	17 17	3	29	19	26
19		46	42	53 17	13 18	45	16	6	43	19	25
20		50	55 21	9 16	49 22	7	15	10	58	19	25
21	3	54	20 8	21 24	16 26	24 12	21 14	17 14	15 12	14 18	19 25
22		58	20	39 16	4 24	57	13	18	26	18	25
23	4	2	31	53 15	45 24	21	12	21	40	18	24
24		6	43 22	6 15	26 22	33	11	25	53	18	24
25		10	54	19 15	10 19	45	10	29 16	7	18	24
26		13	21 5	31 14	56 16	8	9	32	20	18	24
27		17	15	43 14	44 11	55	8	36	33	18	23
28	4	21	21 25	22 54	14 34	7 16	21 7	17 40	16 46	14 18	19 23
29		25	35 23	4 14	26 2	21	6	43	59	18	23
30		29	44	14 14	21 2 s	43	5	46 17	12	18	23
31	4	33	21 53	23 22	14 18	7 45	21 4	17 50	17 24	14 18	19 22

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1917

Eclipse of Sun June 19th in Π $27^{\circ} 36'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° Π'	° Π'	° δ'	° $\approx'$	° $\approx'$	° δ'	° δ'	° $\approx'$	° $\approx'$	° $\approx'$	° $\approx'$
1	10 23	20 2	20 56	20 3	27 26	23 40	20 23	23 43	2 45	12 21	
2	11 21	21 15	21 11	2 11	32 56	54 21	6 43	46 46	17 17		
3	12 18	22 29	21 31	16 9	38 24	8 21	50 42	48 48	14 14		
4	13 16	23 43	21 56	29 44	45 22	22 33	42 42	49 49	11 11		
5	14 13	24 56	22 24	13 37	51 36	23 17	42 42	51 51	8 8		
6	15 11	26 10	22 57	27 45	57 50	24 0	41 41	52 52	5 5		
7	16 8	27 24	23 35	12 5	28 4	25 3	24 43	23 41	2 54	12 2	
8	17 5	28 37	24 16	26 31	10 17	25 26	40 40	56 56	11 58		
9	18 3	29 51	25 1	10 59	17 31	26 10	40 40	57 57	55 55		
10	19 0	1 4	25 50	25 23	23 44	26 53	39 39	59 59	52 52		
11	19 57	2 18	26 43	9 41	30 58	27 36	39 3	1 49			
12	20 55	3 31	27 39	23 51	36 26	11 28	19 38	2 45			
13	21 52	4 45	28 39	7 49	43 25	29 2	37 37	4 42			
14	22 49	5 59	29 43	21 36	28 50	26 38	29 45	23 37	3 6	11 39	
15	23 47	7 12	0 50	5 10	57 52	0 27	36 36	8 36			
16	24 44	8 26	2 18	30 29	4 27	5 1	10 35	10 33			
17	25 41	9 39	3 15	1 36	10 18	1 3	34 34	11 30			
18	26 38	10 53	4 33	14 28	17 32	2 36	33 33	13 26			
19	27 36	12 6	5 54	27 6	24 45	3 18	32 32	15 23			
20	28 33	13 20	7 18	9 30	31 58	4 1	31 31	17 20			
21	29 30	14 33	8 45	21 43	29 38	28 11	4 43	23 30	3 19	11 17	
22	0 28	15 47	10 16	3 46	46 24	5 26	29 29	21 14			
23	1 25	17 0	11 49	15 41	53 37	6 8	28 28	23 11			
24	2 22	18 13	13 26	27 32	0 50	6 50	27 27	25 7			
25	3 19	19 27	15 6	9 22	7 29	3 7	33 25	27 4			
26	4 17	20 40	16 49	21 16	14 16	8 15	24 24	29 1			
27	5 14	21 54	18 35	3 18	22 29	8 57	23 23	31 58			
28	6 11	23 7	20 24	15 33	0 29	29 42	9 39	23 21	3 33	10 55	
29	7 8	24 20	22 15	28 4	36 54	10 21	20 20	35 52			
30	8 5	25 34	24 11	10 57	0 43	0 7	11 3	23 19	3 37	10 48	

D	S	T	○ N	♀ N	♀ N	D S	♂ N	♂ N	♂ N	♂ N	♂ S	♀ N								
1	4	37	22	1	23	31	14	17	12	36	21	3	17	54	17	37	14	18	19	22
2		41		9		38		18	17	2		2		57		49		18		22
3		45		17		45		22	20	40		0	18	0	18	1		18		21
4		49		24		51		27	23	28	20	59		4		13		18		21
5		53		31		57		35	24	49		58		7		24		19		21
6		57		38	24	1		44	24	37		57		10		36		19		21
7	5	1	22	44	24	5	14	55	22	47	20	56	18	14	18	47	14	19	19	20
8		5		49		9	15	8	19	28		54		17		58		19		20
9		9		55		11		23	14	56		53		21	19	9		20		19
10		13	23	0		13		38	9	35		52		24		19		20		19
11		17		4		15		56	3	46		51		27		30		20		19
12		20		8		15	16	14	2	N10		50		30		40		20		19
13		24		12		15		34	7	56		48		33		50		21		18
14	5	28	23	15	24	14	16	54	13	13	20	47	18	37	20	0	14	21	19	18
15		32		18		12	17	16	17	46		45		40		10		21		17
16		36		21		10		38	21	20		44		43		19		21		17
17		40		23		7	18	1	23	45		43		46		29		22		16
18		44		24		3		25	24	52		42		49		38		22		16
19		48		26	23	58		49	24	40		40		52		47		22		15
20		52		27		53	19	13	23	13		39		55		56		22		15
21	5	56	23	27	23	47	19	37	20	42	20	37	18	58	21	4	14	23	19	15
22	6	0		27		40	20	2	17	18		36	19	0		12		23		15
23		4		27		33		26	13	14		34		3		20		23		14
24		8		26		25		49	8	42		33		6		28		23		14
25		12		24		16	21	13	3	52		31		9		36		24		13
26		16		23		7		35	1	s 7		30		12		43		24		13
27		20		21	22	57		57	6	7		28		14		51		25		12
28	6	24	23	18	22	46	22	17	10	59	20	27	19	17	21	58	14	25	19	12
29		27		15		35		36	15	30		25		20	22	5		26		12
30	6	31	23	12	22	23	22	54	19	28	20	24	19	22	22	11	14	26	19	11

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1917

Eclipse of Sun July 19th in $\odot$ $26^{\circ} 12'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	9 3	26 47	26 8	24 13	0 51	0 19	11 45	23 ^R 17	3 39	10 45	
2	10 0	28 1	28 7	7 53	58	32	12 27	16	41	42	
3	10 57	29 14	0 25	9 21	58	1 6	44 13	8 14	43	39	
4	11 54	0 27	2 12	6 23	13	57	13 50	13	45	36	
5	12 51	1 40	4 18	21 5	21	1 9	14 32	11	47	33	
6	13 48	2 54	6 24	5 56	28	21	15 13	9	49	29	
7	14 46	4 7	8 32	20 48	1 36	1 33	15 55	23 8	3 51	10 26	
8	15 43	5 20	10 41	5 35	43	45	16 36	6	54	23	
9	16 40	6 34	12 50	20 10	51	57	17 18	4	56	20	
10	17 37	7 47	15 0	4 29	58	2 9	17 59	2	58	17	
11	18 34	9 0	17 10	18 28	2 6	21	18 40	1 4	0	14	
12	19 32	10 13	19 19	2 8	7 14	33	19 22	22 59	2	10	
13	20 29	11 26	21 28	15 27	21	44	20 3	57	4	7	
14	21 26	12 40	23 36	28 30	2 29	2 56	20 44	22 55	4 7	10 4	
15	22 23	13 53	25 43	11 16	37	3 7	21 25	53	9	1	
16	23 21	15 6	27 49	23 48	44	19	22 6	51	11 9	57	
17	24 18	16 19	29 54	6 8	52	30	22 47	49	13	54	
18	25 15	17 32	1 57	18 19	3 0	41	23 28	47	15	51	
19	26 12	18 45	3 59	0 21	7	52	24 9	45	18	48	
20	27 10	19 59	5 59	12 17	15	4 4	24 50	43	20	45	
21	28 7	21 12	7 58	24 9	3 23	4 15	25 31	22 41	4 22	9 42	
22	29 4	22 25	9 55	5 58	31	25	26 11	39	24	38	
23	0 2	23 38	11 50	17 49	38	36	26 52	37	26	35	
24	0 59	24 51	13 44	29 43	46	47	27 32	34	29	32	
25	1 56	26 4	15 36	11 45	54	57	28 13	32	31	29	
26	2 54	27 17	17 26	23 57	4 2	5 8	28 53	30	33	26	
27	3 51	28 30	19 15	6 26	9	18	29 34	28	35	23	
28	4 48	29 43	21 1	19 14	4 17	5 28	0 14	22 26	4 38	9 19	
29	5 46	0 56	22 47	2 25	25	39	0 54	23	40	16	
30	6 43	2 9	24 30	16 2	33	49	1 34	21	42	13	
31	7 40	3 22	26 12	0 7	4 40	5 59	2 15	22 19	4 44	9 10	

SIMPLIFIED SCIENTIFIC

EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1917

Eclipse of Moon July 4th in $\text{W } 11^{\circ} 54'$

Declination of the Planets

D	S	T	G	N	♀	N	♂	N	♂	N	♂	N	♂	N	♂	N	♂	N
			N		N		N		N		N		N		N		N	
1	6	35	23	8	22	10	23	10	22	33	20	22	19	25	22	18	14	28
2		39		4	21	57	23	24	24	28		20		27		24		28
3		43		0	21	43	23	36	24	55		19		30		30		29
4		47	22	55	21	28	23	46	23	42		18		32		36		29
5		51		50	21	13	23	53	20	51		16		35		41		30
6		55		44	20	57	23	58	16	37		15		37		47		30
7	6	59	22	38	20	41	24	1	11	20	20	13	19	40	22	52	14	31
8	7	3		31	20	24	24	0	5	26		12		42		57		31
9		7		25	20	7	23	57	0	N40		10		45	23	2		32
10		11		17	19	48	23	51	6	36		8		47		6		32
11		15		10	19	30	23	42	12	5		6		50		10		33
12		19		2	19	11	23	30	16	50		4		52		15		33
13		23	21	53	18	51	23	16	20	38		3		54		18		34
14	7	27	21	44	18	31	22	59	23	18	20	2	19	57	23	22	14	34
15		31		35	18	10	22	40	24	43		0		59		26		35
16		35		26	17	49	22	18	24	51	19	58	20	1		29		36
17		38		16	17	27	21	55	23	44		56		3		32		37
18		42		6	17	5	21	29	21	31		54		5		35		37
19		46	20	55	16	43	21	2	18	21		53		7		37		38
20		50		44	16	20	20	32	14	28		52		9		40		38
21	7	54	20	33	15	56	20	2	10	4	19	50	20	11	23	42	14	39
22		58		21	15	32	19	29	5	18		48		13		44		40
23	8	2		9	15	8	18	56	0	21		46		15		46		41
24		6	19	57	14	43	18	21	4	s37		45		17		47		41
25		10		44	14	18	17	45	9	28		43		19		49		42
26		14		31	13	53	17	9	14	2		41		21		50		43
27		18		18	13	27	16	31	18	7		39		22		51		44
28	8	22	19	4	13	1	15	53	21	29	19	38	20	24	23	52	14	44
29		26	18	50	12	34	15	14	23	50		36		26		52		45
30		30		36	12	8	14	35	24	53		34		28		52		46
31	8	34	18	21	11	40	13	55	24	24	19	32	20	29	23	53	14	47

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1917

New Moon August 17th in Ω $23^{\circ} 59'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° Ω'	° ♀'	° ♂'	° ♂'	° ♂'	° ♂'	° ♂'	° ♂'	° ♂'	° ♂'	° ♂'
1	8 38	4 34	27 52	14 37	4 48	6 8	2 55	22R16	4 46	9 7	7
2	9 35	5 47	29 30	29 28	56	18	3 35	14	49	4	4
3	10 33	7 0	1 ♀ 7	14 35	5 3	28	4 15	12	51	0	0
4	11 30	8 13	2 42	29 47	11	37	4 54	9	53	8 57	57
5	12 27	9 26	4 15	14 54	19	47	5 34	7	55	54	54
6	13 25	10 38	5 47	29 48	27	56	6 14	5	57	51	51
7	14 22	11 51	7 17	14 21	5 34	7 5	6 54	22 2	5 0	8 48	48
8	15 20	13 4	8 45	28 29	42	14	7 33	0	2	44	44
9	16 17	14 17	10 12	12 8	10	50	23 8	13 21	58	4 41	41
10	17 15	15 29	11 37	25 26	57	32	8 53	55	6	38	38
11	18 13	16 42	13 0	8 20	6 5	40	9 32	53	8	35	35
12	19 10	17 55	14 22	20 54	13	49	10 15	15	11	32	32
13	20 8	19 7	15 41	3 14	20	57	10 51	48	13	29	29
14	21 5	20 20	16 59	15 21	6 28	8 6	11 30	21 46	5 15	8 25	25
15	22 3	21 32	18 15	27 21	35	14	12 9	43	17	22	22
16	23 1	22 45	19 29	9 15	43	22	12 49	41	19	19	19
17	23 59	23 57	20 41	21 6	50	29	13 28	39	21	16	16
18	24 56	25 10	21 50	2 56	58	37	14 7	36	24	13	13
19	25 54	26 22	22 58	14 47	7 5	45	14 46	34	26	10	10
20	26 52	27 35	24 3	26 40	13	52	15 25	31	28	7	7
21	27 50	28 47	25 6	8 37	7 20	8 59	16 4	21 29	5 30	8 3	3
22	28 47	0 0	26 6	20 42	28	9 6	16 42	27	32	0	0
23	29 45	1 12	27 4	2 56	35	13	17 21	24	34	7 57	57
24	0 ♀ 43	2 24	27 59	15 23	43	20	18 0	22	36	54	54
25	1 41	3 37	28 51	28 7	50	27	18 38	20	38	51	51
26	2 39	4 49	29 39	11 12	57	33	19 17	17	40	47	47
27	3 37	6 1	0 25	24 41	8 4	40	19 55	15	42	44	44
28	4 35	7 13	1 7	8 36	8 12	9 46	20 34	21 13	5 44	7 41	41
29	5 33	8 25	1 45	22 59	19	52	21 12	10	46	38	38
30	6 31	9 37	2 19	7 46	26	58	21 50	8	48	34	34
31	7 29	10 49	2 49	22 52	8 33	10 4	22 29	21 6	5 50	7 31	31

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1917

Full Moon August 3rd in $\approx 10^{\circ} 33'$

Declination of the Planets

D	S	T	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂
			N	N	N	S	N	N	N	S	N	N
1	8	38	18 7	11 13	13 15	22 17	19 30	20 31	23 52	14 48	18 54	
2		42	17 51	10 45	12 34	18 37	29	32	52	49	54	
3		45	17 36	10 17	11 54	13 40	27	34	52	50	53	
4		49	17 20	9 49	11 13	7 54	25	36	51	50	53	
5		53	17 4	9 41	10 32	1 37	23	37	50	51	52	
6		57	16 48	8 52	9 51	4 N37	22	39	49	52	52	
7	9	1	16 31	8 23	9 10	10 26	19 20	20 40	23 48	14 53	18 51	
8		5	16 15	7 54	8 30	15 33	18	42	46	53	51	
9		9	15 58	7 24	7 49	19 42	16	43	45	54	50	
10		13	15 40	6 55	7 9	22 41	14	45	43	55	50	
11		17	15 23	6 25	6 29	24 25	12	46	41	56	49	
12		21	15 5	5 55	5 49	24 51	10	47	39	57	49	
13		25	14 47	5 25	5 10	24 3	9	48	36	58	48	
14	9	29	14 28	4 55	4 31	22 6	19 7	20 49	23 34	14 58	18 48	
15		33	14 10	4 25	3 52	19 12	5	51	31	59	47	
16		37	13 51	3 54	3 15	15 32	4	52	28	59	47	
17		41	13 32	3 24	2 37	11 16	2	53	25	15 1	46	
18		45	13 13	2 53	2 16	6 36	0	54	21	1	46	
19		49	12 53	2 22	1 25	1 43	18 58	55	18	2	45	
20		53	12 34	1 51	0 50	3 s15	56	56	14	3	45	
21	9	56	12 14	1 20	0 16	8 7	18 54	20 57	23 10	15 4	18 44	
22	10	0	11 54	0 49	0 s17	12 44	52	58	6	4	44	
23		4	11 34	0 18	0 49	16 54	51	21 0	2	5	43	
24		8	11 13	0 s13	1 20	20 25	49	1	22 58	6	43	
25		12	10 53	0 44	1 50	23 2	47	1	53	7	42	
26		16	10 32	1 15	2 18	24 31	46	2	49	7	42	
27		20	10 11	1 46	2 45	24 38	44	3	44	8	41	
28	10	24	9 50	2 17	3 11	23 14	18 42	21 4	22 39	15 9	18 41	
29		28	9 29	2 48	3 34	20 18	40	5	34	10	40	
30		32	9 7	3 19	3 56	15 58	39	5	28	10	40	
31	10	36	8 46	3 50	4 16	10 34	18 37	21 6	22 23	15 11	18 30	

Calculated for Mean Noon at Greenwich

September, 1917

New Moon September 16th in $\text{m}\gamma$ $23^{\circ} 1'$

Longitude of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC

EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1917

Full Moon September 1st in α $8^{\circ} 27'$

Full Moon September 30th in γ $6^{\circ} 44'$

Declination of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1917

New Moon October 16th in $\approx 22^{\circ} 33'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	7 43	17 44	20 28	16 47	11 50	11 31	11 39	20 8	6 41	5 53	
2	8 42	18 54	21 6	1 34	56	31	12 15	6	42	50	
3	9 41	20 5	21 54	15 57	12 1	30	12 51	5	43	47	
4	10 40	21 15	22 48	29 52	6	30	13 27	4	45	43	
5	11 40	22 26	23 50	13 17	11	29	14 2	3	46	40	
6	12 39	23 36	25 0	26 14	17	28	14 38	2	47	37	
7	13 38	24 46	26 14	8 48	12 22	11 26	15 13	20 0	6 48	5 34	
8	14 37	25 56	27 35	21 3	26	25	15 19	19 59	49	31	
9	15 36	27 7	28 59	3 4	31	23	16 24	58	50	28	
10	16 36	28 17	0 27	14 57	36	21	16 59	57	51	24	
11	17 35	29 27	1 59	26 4	41	19	17 34	56	52	21	
12	18 35	0 37	3 33	8 36	45	17	18 10	55	53	18	
13	19 34	1 47	5 10	20 30	50	15	18 44	55	54	15	
14	20 33	2 56	6 48	2 31	12 54	11 12	19 19	19 54	6 55	5 12	
15	21 33	4 6	8 27	14 39	59	9	19 54	53	56	9	
16	22 33	5 16	10 8	26 57	13 3	6	20 29	52	57	5	
17	23 32	6 25	11 49	9 24	7	3	21 3	52	57	2	
18	24 32	7 35	13 31	22 1	11 10	59	21 38	51	58	4 59	
19	25 31	8 44	15 13	4 48	15	56	22 12	50	59	56	
20	26 31	9 53	16 56	17 47	19	52	22 46	50	7 0	52	
21	27 31	11 2	18 38	0 58	13 23	10 48	23 21	19 50	7 0	4 49	
22	28 31	12 12	20 21	14 24	27	43	23 55	49	1	46	
23	29 30	13 21	22 3	28 6	30	39	24 29	49	2	43	
24	0 30	14 29	23 45	12 5	34	35	25 2	48	2	40	
25	1 30	15 38	25 26	26 21	37	30	25 36	48	3	37	
26	2 30	16 47	27 7	10 53	41	25	26 10	48	3	33	
27	3 30	17 55	28 48	25 35	44	20	26 43	48	4	30	
28	4 30	19 4	0 28	10 23	13 47	10 15	27 17	19 48	7 4	4 27	
29	5 29	20 12	2 8	25 7	50	9	27 50	48	4	24	
30	6 29	21 20	3 48	9 40	53	4	28 23	48	5	21	
31	7 29	22 28	5 27	23 55	13 56	9 58	28 56	19 48	7 5	4 18	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich :

October, 1917

Full Moon October 30th in γ $6^{\circ} 29'$

Declination of the Planets

D	S	T	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂
			S	S	N	N	N	N	N	S	N	N
1	12	38	3	4	18	19	4	28	11	8	17	47
2		42	3	27	18	42	4	26	16	15	45	17
3		46	3	51	19	5	4	18	20	17	41	16
4		50	4	14	19	27	4	6	23	0	42	16
5		54	4	37	19	49	3	49	24	17	41	16
6		58	5	0	20	10	3	29	24	12	40	16
7	13	2	5	23	20	31	3	5	22	51	17	39
8		6	5	46	20	51	2	38	20	27	38	16
9		10	6	9	21	11	2	8	17	12	36	15
10		14	6	32	21	30	1	36	13	17	35	15
11		18	6	55	21	49	1	1	8	53	34	14
12		21	7	17	22	7	0	24	4	10	33	14
13		25	7	40	22	25	0	s 14	0	s 42	32	14
14	13	29	8	2	22	42	0	53	5	36	17	31
15		33	8	25	22	58	1	34	10	20	29	13
16		37	8	47	23	14	2	15	14	42	28	13
17		41	9	9	23	30	2	58	18	31	27	12
18		45	9	31	23	44	3	40	21	32	26	12
19		49	9	53	23	58	4	23	23	34	25	11
20		53	10	14	24	12	5	6	24	17	21	11
21	13	57	10	36	24	25	5	49	23	41	17	23
22	14	1	10	57	24	37	6	33	21	44	23	10
23		5	11	18	24	49	7	16	18	23	22	9
24		9	11	39	25	0	7	58	14	8	21	8
25		13	12	0	25	10	8	41	8	56	20	7
26		17	12	21	25	20	9	23	3	9	19	7
27		21	12	41	25	29	10	4	2	N 52	18	6
28	14	25	13	2	25	37	10	46	8	44	17	18
29		28	13	22	25	45	11	26	14	6	17	4
30		32	13	42	25	52	12	6	18	35	16	4
31	14	36	14	1	25	58	12	46	21	52	17	15

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1917

New Moon November 14th in μ 21° 33'

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1917

Full Moon November 28th in Π $5^{\circ} 42'$

Declination of the Planets

D	S	T	☉ S	♀ S	♂ S	♂ N	♂ N	♂ N	♂ N	♂ S	♂ N
1	14	40	14 21	26 4	13 24	23 45	17 15	21 2	13 11	15 35	18 20
2		44	46	8 14	2 24	11	15	1	0	35	20
3		48	59	13 14	40 23	15	14	0	12 49	35	20
4		52	15 17	16 15	16 21	9	14	20 59	39	35	20
5		56	36	19 15	52 18	6	13	58	28	34	20
6	15	0	54	21 16	27 14	21	13	57	17	34	20
7	15	4	16 12	26 23	17 1	10 4	17 12	20 56	12 6	15 34	18 20
8		8	30	24 17	35 5	27	12	55	11 55	34	20
9		12	47	24 18	7 0	39	11	54	45	34	20
10		16	17 4	23 18	38 4	s 13	11	53	34	34	20
11		20	21	22 19	9 8	58	10	52	23	33	20
12		24	38	20 19	39 13	27	10	51	12	33	20
13		28	54	17 20	7 17	27	9	50	2	33	20
14	15	32	18 10	26 14	20 35	20 43	17 9	20 49	10 51	15 33	18 20
15		36	25	10 21	2 23	1	9	48	40	32	20
16		39	40	6 21	27 24	5	9	47	30	32	20
17		43	55	0 21	52 23	48	9	45	19	32	20
18		47	19 10	25 55	22 16	22 7	9	44	9	32	20
19		51	24	48 22	38 19	7	9	43	9 58	31	20
20		55	38	41 22	59 15	1	9	42	48	31	20
21	15	59	19 52	25 33	23 19	10 4	17 8	20 41	9 37	15 30	18 21
22	16	3	20 5	25 23	38 4	32	8	40	27	30	21
23		7	18	16 23	56 1	N 15	9	38	16	29	21
24		11	30	6 24	13 7	0	9	37	6	29	21
25		15	42	24 56	24 28	12 23	9	36	8 56	28	21
26		19	54	45 24	42 17	4	9	35	45	28	21
27		23	21 5	34 24	55 20	44	9	33	35	28	21
28	16	27	21 16	24 22	25 6	23 8	17 9	20 32	8 25	13 28	18 21
29		31	26	10 25	16 24	7	10	31	15	27	22
30	16	35	21 36	23 57	25 25	23 41	17 10	20 29	8 5	15 26	18 22

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1917

Position of Sun December 14th in $\uparrow$ $21^{\circ} 56'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	8 44	25 59	23 49	11 56	14R31	6 R 7	14 49	20 14	6 R59	2 39	
2	9 45	26 59	25 18	24 33	30 5	59 15	17 15	15 58		36	
3	10 46	27 59	26 47	6 ♀52	29	51 15	45 17	57 33			
4	11 47	28 58	28 15	18 59	29	43 16	12 19	56 29			
5	12 47	29 57	29 43	0 ♀56	28	35 16	39 21	56 26			
6	13 48	0 ♀56	1 ♀9	12 48	26	27 17	7 22	55 23			
7	14 49	1 54	2 35	24 40	14 25	5 19	17 33	20 24	6 54	2 20	
8	15 50	2 51	4 0	6 ♀38	24	11 18	0 26	53 17			
9	16 51	3 48	5 24	18 45	23	3 18	26 28	52 14			
10	17 52	4 45	6 46	1 ♀6	21 4	55 18	53 30	51 10			
11	18 53	5 41	8 7	13 42	19	48 19	18 32	50 7			
12	19 54	6 36	9 26	26 37	18	40 19	44 34	49 4			
13	20 55	7 31	10 42	9 †51	16	32 20	9 36	48 1			
14	21 56	8 25	11 56	23 22	14 14	4 25	20 34	20 38	6 47	1 58	
15	22 57	9 18	13 7	7 ♀9	12	17 20	59 41	46 55			
16	23 59	10 11	14 14	21 10	10	10 21	24 43	45 51			
17	25 0	11 3	15 17	5 ♀19	7	3 21	48 45	44 48			
18	26 1	11 54	16 15	19 34	5 3	56 22	12 47	42 45			
19	27 2	12 45	17 8	3 ♀51	2	49 22	36 50	41 42			
20	28 3	13 35	17 51	18 6	0	42 22	59 52	40 39			
21	29 4	14 23	18 33	2 ♀17	13 57	3 35	23 22	20 55	6 39	1 36	
22	0 ♀5	15 11	19 5	16 22	54	29 23	45 57	37 32			
23	1 6	15 59	19 27	0 ♀19	51	22 24	7 21	0 29			
24	2 7	16 45	19 40	14 6	49	16 24	29 2	35 26			
25	3 9	17 30	19R12	27 43	45	10 24	51 5	33 23			
26	4 10	18 14	19 33	11 ♀7	42	4 25	12 7	32 20			
27	5 11	18 57	19 12	24 18	39	2 58	25 34	31 17			
28	6 12	19 39	18 39	7 ♀15	13 36	2 53	25 54	21 13	6 29	1 13	
29	7 13	20 20	17 55	19 58	32	47 26	15 15	28 10			
30	8 14	20 59	17 0	2 ♀27	29	42 26	35 18	26 7			
31	9 15	21 37	15 55	14 43	13 25	2 37	26 54	21 21	6 25	1 4	

Calculated for Mean Noon at Greenwich

December, 1917

Full Moon December 28th in φ 6°

Declination of the Planets

♂	S T		⊙	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
			S	S		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
1	16	39	21	46	23	44	25	32	21	58	17	10	20	28	7	55	15	26	18	2	
2		43		55	23	30		38	19	12		10		27		45		25		2	
3		46	22	4	23	16		43	15	37		11		26		35		24		22	
4		50		13	23	1		6	11	27		11		24		26		24		22	
5		54		21	22	46		47	6	55		12		23		16		23		23	
6		58		28	22	30		48	2	9		12		22		6		23		23	
7	17	2	22	35	22	14	25	46	2	s41	17	13	20	21	6	57	15	22	18	23	
8		6		42	21	57		44	7	27		13		20		48		22		23	
9		10		48	21	40		39	12	0		14		18		38		21		24	
10		14		54	21	23		34	16	9		14		17		29		20		24	
11		18		59	21	5		27	19	41		15		16		20		19		24	
12		22	23	4	20	47		18	22	21		16		15		11		19		24	
13		26		8	20	29		9	23	52		17		13		2		18		25	
14	17	30	23	12	20	10	24	58	24	2	17	17	20	12	5	53	15	18	18	25	
15		34		16	19	51		45	22	44		18		11		44		17		25	
16		38		19	19	32		32	20	1		19		10		36		16		25	
17		42		21	19	13		17	16	5		20		9		27		15		26	
18		46		23	18	53		2	11	13		20		8		19		15		26	
19		50		25	18	33	23	46	5	44		21		6		10		14		27	
20		54		26	18	13		29	0	N 2		22		5		2		13		27	
21	17	57	23	27	17	53	23	12	15	46	17	23	20	4	4	54	15	12	18	27	
22	18	1		27	17	32	22	54	11	9		24		3		46		11		27	
23		5		27	17	12		36	15	56		25		2		39		10		28	
24		9		26	16	51		19	19	48		26		1		31		10		28	
25		13		25	16	30		2	22	32		27		0		24		9		29	
26		17		23	16	9	21	46	23	57		28	19	59		16		8		29	
27		21		21	15	48		30	24	0		29		58		9		7		29	
28	18	25	23	18	15	27	21	15	22	43	17	30	19	58	4	2	15	6	18	29	
29		29		15	15	6		2	20	18		32		57	3	55		5		30	
30		33		12	14	45	20	50	16	58		33		56		48		4		30	
31	18	37	23	8	14	25	20	38	12	58	17	34	19	35	3	42	15	3	18	31	

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	8935	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	.90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5695	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	50	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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Date	Long.	Dec.	Date	Long.	Dec.
January 25	3° 52'R	18° N 51'	July 24	5° 38'	19° N 8'
February 24	3° 29'	18° N 56'	August 23	6° 13'	19° N 6'
March 26	3° 24'	19° N 1'	September 22	6° 33'	19° N 4'
April 25	3° 40'D	19° N 5'	October 22	6° 34'	19° N 3'
May 25	4° 13'	19° N 8'	November 21	6° 14'R	19° N 3'
June 24	4° 55'	19° N 9'	Decembr 21	5° 40'	19° N 5'

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EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January 1918

New Moon January 12th in $\text{♊ } 21^\circ 29'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ♊'	° ♋'	° ♌'	° ♍'	° ♎'	° ♏'	° ♐'	° ♑'	° ♒'	° ♓'	° ♊'
1	10 16	22 14	14 _R 43	26 48	13 _R 22	2 31	27 13	21 24	6 24	1 2	2
2	11 18	22 50	13 25	8 ♊ 45	18	27	32	26	22	57	57
3	12 19	23 24	12 4	20 38	14	22	51	29	21	54	54
4	13 20	23 57	10 43	2 ♊ 30	10	17	28 9	32	19	51	51
5	14 21	24 28	9 24	14 26	6	13	26	35	18	48	48
6	15 22	24 58	8 10	26 31	2	9	43	33	16	45	45
7	16 23	25 26	7 3	8 ♊ 49	12 58	2 5	29 0	21 41	6 14	0 42	42
8	17 25	25 52	6 4	21 25	54	1	16	44	13	38	38
9	18 26	26 16	5 13	4 ♊ 22	50	1 58	32	47	11	35	35
10	19 27	26 39	4 33	17 43	46	54	47	50	10	32	32
11	20 28	27 0	4 2	1 ♊ 28	42	51	0 ♊ 2	53	8	29	29
12	21 29	27 19	3 42	15 36	37	48	16	56	6	26	26
13	22 30	27 36	3 30	0 ♊ 2	33	46	30	59	5	23	23
14	23 32	27 50	3 _D 28	14 41	12 28	1 43	0 43	22 2	6 3	0 19	19
15	24 33	28 3	3 34	29 26	24	41	56	6	2	16	16
16	25 34	28 13	3 48	14 ♊ 10	19	38	1 8	9	0	13	13
17	26 35	28 21	4 9	28 45	15	37	20	12	5 58	10	10
18	27 36	28 27	4 36	13 ♊ 7	10	35	31	15	57	7	7
19	28 37	28 30	5 9	27 12	6	33	41	19	55	3	3
20	29 38	28 31	5 48	11 8 0	1	32	51	22	53	0	0
21	0 ♊ 39	28 _R 29	6 31	24 31	11 56	1 31	2 1	22 25	5 51	29 57	57
22	1 40	28 25	7 19	7 ♊ 45	51	30	10	28	50	♄ 53	53
23	2 41	28 18	8 11	20 46	46	29	18	32	48	50	50
24	3 42	28 9	9 6	3 ♊ 33	41	29	25	35	46	47	47
25	4 43	27 57	10 4	16 9	37	28	32	38	45	44	44
26	5 44	27 43	11 5	28 34	32	28	38	42	43	40	40
27	6 45	27 26	12 9	10 ♊ 51	27	1 _D 28	44	45	41	37	37
28	7 46	27 7	13 16	22 59	11 22	29	2 49	22 48	5 40	29 34	34
29	8 47	26 45	14 24	5 ♊ 0	17	29	53	52	38	31	31
30	9 48	26 21	15 35	16 55	12	30	57	55	36	28	28
31	10 49	25 55	16 47	28 47	11 7	1 31	3 0	22 59	5 35	29 22	22

SIMPLIFIED SCIENTIFIC
EPHEMERIS OF THE PLANETS PLACES

Calculated for Mean Noon at Greenwich

January, 1918

Full Moon January 27th in Ω $6^{\circ} 23'$

Declination of the Planets

D.	S. T.	☉ S		♀ S		♊ S		♈ N		♉ N		♊ N		♈ N		♉ S		♊ N	
1	18 41	23	3	14	4	20	29	8	30	17	35	19	54	3	35	15	2	18	31
2	45	22	58	13	43		20	3	46		36		54		29		2		31
3	49		53	13	22		13	1	s 3		38		53		23		1		32
4	53		47	13	2		8	5	50		39		53		17		0		32
5	57		41	12	42		4	10	26		40		52		11	14	59		33
6	19 1		34	12	22		1	14	41		41		52		5		58		33
7	19 4	22	27	12	2	20	0	18	25	17	43	19	51	3	0	14	57	18	34
8	8		19	11	42		0	21	34		44		51	2	55		56		34
9	12		11	11	26		2	23	23		45		50		50		55		35
10	16		2	11	4		5	24	8		46		50		45		54		35
11	20	21	53	10	45		9	23	27		48		49		40		53		36
12	24		44	10	27		15	21	16		49		49		36		52		36
13	28		34	10	9		21	17	42		51		48		32		51		37
14	19 32	21	24	9	52	20	28	12	59	17	52	19	48	2	28	14	50	18	37
15	36		13	9	35		36	7	30		54		48		24		49		38
16	40		2	9	19		44	1	37		55		47		21		48		38
17	44	20	51	9	3	21	53	4	N 18		56		47		17		46		39
18	48		38	8	48		2	9	54		57		47		14		45		39
19	52		27	8	38		10	14	52		59		47		11		44		40
20	56		14	8	20		19	18	58	18	0		47		9		43		40
21	20 0	20	1	8	7	21	27	21	57	18	2	19	47	2	6	14	42	18	40
22	4	19	48	7	54		35	23	41		3		47		4		41		40
23	8		34	7	43		42	24	5		5		47		2		40		41
24	11		20	7	32		48	23	12		6		47		1		39		41
25	15		5	7	23		54	21	9		8		47	1	59		38		42
26	19	18	51	7	14	22	59	18	7		9		48		58		37		42
27	23		35	7	6		4	14	20		11		48		57		36		43
28	20 27	18	20	6	59	22	7	10	1	18	12	19	49	1	56	14	35	18	43
29	31		4	6	53		9	5	21		14		49		56		33		43
30	35	17	48	6	48		11	0	33		15		49		56		32		44
31	20 39	17	32	6	44	22	11	4	s 15	18	17	19	49	1	56	14	31	18	44

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February 1918

New Moon February 11th in ♋ 21° 58'

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	11 50	25 ^R 27	18 1	10 39	11 ^R 2	1 32	3 2	23 2	5 ^R 33	29 22	
2	12 50	24 57	19 17	22 33	10 57	33	3	5	31	19	
3	13 51	24 26	20 34	4 ♍35	52	35	4	9	30	16	
4	14 52	23 53	21 53	16 49	48	36	^R 4	12	28	12	
5	15 53	23 18	23 13	29 20	43	38	3	16	26	9	
6	16 54	22 43	24 34	12 † 12	38	40	1	19	25	6	
7	17 55	22 7	25 56	25 29	10 33	1 43	2 59	23 23	5 23	29 3	
8	18 55	21 30	27 20	9 ♍14	28	45	56	26	21	0	
9	19 56	20 53	28 44	23 28	23	48	52	30	20	28 57	
10	20 57	20 15	0 ♋10	8 ♋7	18	51	48	33	18	53	
11	21 58	19 38	1 37	23 5	14	54	42	37	16	50	
12	22 58	19 2	3 4	8 ♋14	9	57	36	40	15	47	
13	23 59	18 26	4 33	23 24	4 2	1	29	44	13	44	
14	25 0	17 51	6 2	8 ♎23	10 0	2 4	2 21	23 47	5 12	28 41	
15	26 0	17 17	7 33	23 4	9 55	8	12	50	10	38	
16	27 1	16 44	9 4	7 8 22	50	12	3	54	9	34	
17	28 1	16 13	10 37	21 15	46	17 1	53	57	7	31	
18	29 2	15 43	12 10	4 ♏43	41	21	42	24 1	6	28	
19	0 ♋	2 15	16 13	44 17	49	37	26	30 4	4	25	
20	1 3	14 50	15 19	0 ♏36	33	30	18	8	3	22	
21	2 3	14 27	16 55	13 8	9 28	2 35	1 5	24 11	5 1	28 19	
22	3 4	14 6	18 32	25 28	24	40 0	51	15	0	15	
23	4 4	13 47	20 10	7 ♏39	20	46	36	18 4	58	12	
24	5 4	13 30	21 49	19 43	15	51	21	22	57	9	
25	6 5	13 17	23 29	1 ♏43	11	57	5	25	55	6	
26	7 5	13 5	25 10	13 38	7 3	3 29	48	28	54	3	
27	8 5	12 56	26 52	25 32	3	9	♏31	32	53	0	
28	9 5	12 50	28 35	7 ♏24	8 59	3 15	29 13	24 35	4 51	27 56	

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February 1918

Full Moon February 25th in π $6^{\circ} 5'$

Declination of the Planets

D	ST		☉		♀	♂	D	♂	♂	♂	♂	♂								
			S		S	S	S	N	N	N	S	N								
1	20	43	17	15	6	41	22	10	8	53	18	18	19	50	1	57	14	30	18	44
2		47	16	58		40	22	8	13	13		19		50		57		29		44
3		51	16	40		39	22	6	17	5		21		51		58		28		45
4		55	16	23		39	22	1	20	17		22		51	2	0		27		45
5		59	16	5		40	21	56	22	38		24		52		1		26		46
6	21	3	15	47		42	21	50	23	53		25		52		3		25		46
7	21	7	15	28	6	45	21	42	23	50	18	27	19	53	2	5	14	23	18	46
8		11	15	9		49	21	33	22	21		28		54		8		22		47
9		15	14	50		54	21	23	19	26		29		55		10		21		47
10		19	14	31		59	21	11	15	13		30		56		13		20		47
11		22	14	12	7	5	20	58	9	59		32		57		17		19		48
12		26	13	52		12	20	44	4	5		35		57		20		18		48
13		30	13	32		20	20	29	2	N 2		36		58		24		16		49
14	21	34	13	12	7	28	20	12	7	57	18	38	19	59	2	28	14	15	18	42
15		38	12	51		37	19	54	13	19		39	20	0		32		14		50
16		42	12	31		46	19	35	17	48		40		1		37		13		50
17		46	12	10		55	19	14	21	9		41		2		42		12		50
18		50	11	49	8	4	18	52	23	13		43		3		47		11		50
19		54	11	28		14	18	29	23	56		44		5		53		10		51
20		58	11	6		24	18	4	23	22		45		6		58		9		51
21	22	2	10	45	8	34	17	39	21	37	18	46	20	7	3	4	14	7	18	52
22		6	10	23		44	17	11	18	53		48		8		11		6		52
23		10	10	1		54	16	43	15	20		49		9		17		5		53
24		14	9	39	9	4	16	13	11	13		50		10		24		4		53
25		18	9	17		14	15	41	6	42		50		12		31		3		53
26		22	8	55		24	15	9	1	57		51		13		38		1		54
27		26	8	32		33	14	35	2	s50		52		15		45		0		54
28	22	29	8	10	9	42	13	59	7	30	18	53	20	16	3	52	13	59	18	55

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April 1918

New Moon April 11th in γ $20^{\circ} 47'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	10 56	26 29	28 27	4 44	7 R40	7 46	17R37	26 14	4 R22	26 15	
2	11 55	27 16	29 56	17 14	39	56	17 19	17	21	11	
3	12 55	28 41	18 20	0 30	39 8	7 17	2	19	21	8	
4	13 54	28 53	2 38	13 6	38	18	16 45	22	20	5	
5	14 53	29 43	3 51	26 35	38	28	16 29	25	20	2	
6	15 52	0 33	4 58	10 31	37	39	16 14	27	20	25 59	
7	16 51	1 25	5 59	24 53	7 37	8 50	16 0	26 30	4 19	25 56	
8	17 50	2 16	6 55	9 39	37 9	1 15	46	32	19	52	
9	18 49	3 9	7 43	24 43	D37	12	15 33	35	19	49	
10	19 48	4 2	8 26	9 57	37	23	15 21	37	19	46	
11	20 47	4 56	9 2	25 10	37	35	15 9	39	19	43	
12	21 45	5 50	9 31	10 8	37	46	14 58	42	19	40	
13	22 44	6 45	9 54	24 50	38	58	14 48	44	19	37	
14	23 43	7 40	10 11	9 3	7 38	10 9	14 39	26 46	4 18	25 33	
15	24 42	8 36	10 21	22 46	39	21	14 31	48	D18	30	
16	25 40	9 32	10 25	6 2	40	32	14 23	51	19	27	
17	26 39	10 29	10R23	18 53	40	44	14 17	53	19	24	
18	27 38	11 26	10 15	1 22	41	56	14 11	55	19	21	
19	28 36	12 23	10 1	13 36	42 11	8 14	6	57	19	18	
20	29 35	13 21	9 43	25 38	43	20	14 1	59	19	14	
21	0 33	14 20	9 19	7 32	7 45	11 32	13 58	27 1	4 19	25 11	
22	1 32	15 18	8 51	19 24	46	44	13 55	3	20	8	
23	2 30	16 18	8 20	1 16	48	56	13 53	5	20	5	
24	3 29	17 17	7 45	13 11	49 12	9 13	52	7	20	1	
25	4 27	18 17	7 8	25 10	51	21	13 51	8	21	24 58	
26	5 26	19 17	6 29	7 15	53	53	13D51	10	21	55	
27	6 24	20 18	5 50	19 27	54	46	13 52	12	21	52	
28	7 22	21 19	5 10	1 48	7 56	12 58	13 54	27 14	4 22	24 49	
29	8 20	22 20	4 30	14 19	58	13 11	13 56	15	22	46	
30	9 19	23 22	3 52	27 1	1 13	23 13	59	27 17	4 22	24 43	

SIMPLIFIED SCIENTIFIC
EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April 1918

Full Moon April 26th in η $5^{\circ} 26'$

Declination of the Planets

D	S	T	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
			N	S	N	S	N	S	N	S	N	S	N	S	N	S	N	S	N	S
1	0	36	4	20	10	17	12	34	22	49	19	15	21	10	7	56	13	27	19	2
2		40	4	43	10	9	13	15	23	31		15		12	8	0		26		2
3		44	5	6	10	0	13	55	23	0		15		14		5		25		2
4		47	5	29	9	51	14	31	21	14		15		16		9		24		2
5		51	5	52	9	41	15	5	18	14		15		17		13		23		2
6		55	6	15	9	31	15	35	14	7		15		19		17		22		2
7	0	59	6	38	9	21	16	3	9	6	19	15	21	21	8	20	13	22	19	2
8	1	3	7	0	9	10	16	28	3	26		15		23		23		21		3
9		7	7	23	8	58	16	49	2	N32		15		25		26		20		3
10		11	7	45	8	46	17	7	8	25		15		26		28		19		3
11		15	8	7	8	33	17	22	13	47		15		28		30		18		3
12		19	8	29	8	20	17	34	18	13		15		30		32		18		3
13		23	8	51	8	7	17	42	21	23		15		32		33		17		3
14	1	27	9	13	7	53	17	47	23	7	19	15	21	34	8	35	13	16	19	3
15		31	9	34	7	38	17	49	23	22		14		36		35		15		3
16		35	9	56	7	24	17	47	22	15		14		38		36		14		3
17		39	10	17	7	8	17	42	19	59		14		39		36		13		3
18		43	10	38	6	53	17	34	16	50		14		41		36		13		3
19		47	10	59	6	37	17	23	13	1		14		43		35		12		3
20		51	11	20	6	20	17	8	8	45		13		45		35		11		3
21	1	54	11	40	6	3	16	51	4	12	19	13	21	46	8	34	13	10	19	3
22		58	12	1	5	46	16	31	0	S29		13		48		32		10		3
23	2	2	12	21	5	29	16	9	5	8		13		50		31		9		3
24		6	12	41	5	11	15	45	9	38		12		52		29		9		3
25		10	13	1	4	52	15	19	13	47		12		54		27		8		3
26		14	13	20	4	34	14	52	17	25		11		55		24		8		3
27		18	13	40	4	15	14	23	20	20		11		57		21		7		3
28	2	22	13	59	3	56	13	54	22	21	19	10	21	59	8	18	13	7	19	3
29		26	14	18	3	36	13	25	23	18		10	22	6		15		6		2
30	2	30	14	36	3	16	12	56	23	3	19	9	22	2	8	12	13	6	19	2

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May 1918

New Moon May 10th in γ $19^{\circ} 0'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	°	♂'	°	♂'	°	♂'	°	♂'	°	♂'	°	♂'	°	♂'	°	♂'	°	♂'	°	♂'
1	10	17	24	23	3	R15	9	57	8	3	13	36	14	3	27	18	4	23	24	39
2	11	15	25	26	2	41	23	10		5		49		8		20		23		36
3	12	13	26	28	2	10	6	40		8	14	2		13		21		24		33
4	13	11	27	31	1	42	20	30		10		14		19		23		25		30
5	14	10	28	34	1	18	4	41		13		27		25		24		25		27
6	15	8	29	37	0	59	19	10		16		40		33		25		26		23
7	16	6	0	40	0	43	3	53	8	19	14	53	14	40	27	27	4	27	24	20
8	17	4	1	44	0	32	18	46		22	15	6		49		28		27		17
9	18	2	2	48	0	25	3	39		25		19		58		29		28		14
10	19	0	3	52	0	D23	18	25		28		32	15	8		30		28		11
11	19	58	4	56	0	26	2	56		31		46		18		31		29		8
12	20	56	6		0	34	17	5		35		59		29		32		30		5
13	21	54	7	5	0	46	0	50		38	16	12		40		33		31		1
14	22	52	8	10	1	2	14	9	8	42	16	25	15	52	27	34	4	32	23	58
15	23	49	9	15	1	23	27	4		45		38	16	5		35		33		55
16	24	47	10	20	1	48	9	38		49		52		18		36		34		52
17	25	45	11	25	2	18	21	55		52	17	5		32		37		35		49
18	26	43	12	31	2	51	3	59		57		19		48		38		36		45
19	27	41	13	36	3	29	15	55	9	1		32	17	1		38		37		42
20	28	38	14	42	4	10	27	48		5		45		16		39		39		39
21	29	36	15	48	4	55	9	41	9	9	17	59	17	32	27	40	4	40	23	36
22	0	34	16	54	5	44	21	38		13	18	12		48		40		41		33
23	1	31	18	1	6	36	3	43		18		26	18	4		41		42		30
24	2	29	19	7	7	32	15	56		22		40		22		41		43		27
25	3	27	20	14	8	30	28	21		26		53		39		42		45		23
26	4	24	21	21	9	32	10	58		31	19	7		57		42		46		20
27	5	22	22	27	10	38	23	47		36	19	20	19	16		42		47		17
28	6	19	23	34	11	46	6	50	9	40	19	34	19	35	27	42	4	48	23	14
29	7	17	24	41	12	57	20	6	9	45	19	48	19	54		43		50		10
30	8	14	25	49	14	11	3	35	9	50	20	1	20	14		43		51		7
31	9	12	26	56	15	28	17	18	9	55	20	15	20	34	27	43	4	53	23	4

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May 1918

Full Moon May 25th in $\uparrow$ $3^{\circ} 27'$

Declination of the Planets

D	S	T	☉		♀		♂		♂		♂		♂		♂	
			N		S		N		S		N		S		N	
1	2	34	14	55	2	56	12	27	21	33	19	9	22	4	8	8
2		38	15	13	2	36	11	59	18	55		8		6		4
3		42	15	31	1	15	11	33	15	8		7		7		0
4		46	15	48	1	54	11	8	10	30		7		9	7	55
5		50	16	6	1	33	10	45	5	13		6		10		51
6		54	16	23	0	12	10	24	0	N28		5		12		46
7	2	58	16	40	0	50	10	5	6	13	19	4	22	14	7	40
8	3		2	16	58	0	28	9	49	11	39		4		16	35
9		5	17	13	0	6	9	35	16	25		3		17		29
10		9	17	29	0	N16	9	23	20	7		2		19		24
11		13	17	44	0	38	9	14	22	28		1		20		17
12		17	18	0	1	1	9	7	23	19		0		22		11
13		21	18	15	1	23	9	3	22	41	18	59		23		5
14	3	25	18	30	1	46	9	2	20	46	18	58	22	25	6	58
15		29	18	44	2	9	9	2	17	50		57		26		51
16		33	18	59	2	32	9	5	14	9		56		27		44
17		37	19	12	2	55	9	11	9	56		55		28		37
18		41	19	26	3	18	9	18	5	25		54		29		29
19		45	19	39	3	41	9	28	0	46		53		31		22
20		49	19	52	4	5	9	39	3	s54		52		33		14
21	3	53	20	5	4	28	9	53	8	26	18	51	22	34	6	6
22		57	20	17	4	51	10	8	12	40		50		36	5	58
23	4	1	20	29	5	15	10	25	16	27		49		37		50
24		5	20	40	5	38	10	44	19	36		48		38		41
25		9	20	51	6	2	11	4	21	53		46		39		32
26		12	21	2	6	25	11	26	23	7		45		40		24
27		16	21	12	6	49	11	49	23	9		44		41		15
28	4	20	21	22	7	12	12	13	21	56	18	42	22	42	5	6
29		24	21	32	7	35	12	39	19	30		41		44	4	56
30		28	21	41	7	59	13	6	15	58		40		45		47
31	4	32	21	50	8	22	13	33	11	32	18	39	22	46	4	37

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June 1918

Eclipse of Sun June 8th in Π $16^{\circ} 52'$

Longitude of the Planets

D	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° Π'	° γ'	° γ'	° γ'	° γ'	° γ'	° γ'	° γ'	° γ'	° γ'	° γ'
1	10 9	28 4	16 47	1 13	10 0	20 29	20 54	27 43	4 54	23 1	
2	11 7	29 11	18 10	15 20	5	43 21	15	43	55	22 58	
3	12 4	0 8	19 19	35 29	37	10 56	21 36	42	57	55	
4	13 2	1 27	21 3	14 γ 1	16 21	10 21	58	43	58	52	
5	13 59	2 35	22 34	28 29	21	24 22	20	43 5	0	48	
6	14 57	3 43	24 7	12 8 56	26	38 22	42	43	2	45	
6	15 54	4 51	25 43	27 16	10 32	21 51	23 5	27 42	5 3	22 42	
8	16 52	5 59	27 22	11 Π 25	37 22	5 23	28	42	5	39	
9	17 49	7 7	29 3	25 18	43	19 23	52	42	6	36	
10	18 46	8 16	0 Π 47	8 52	49	33 24	15	41	8	32	
11	19 44	9 24	2 34	22 7	54	47 24	39	41	10	29	
12	20 41	10 33	4 23	5 Ω 0	11 0	23 0	25 4	41	11	26	
13	21 38	11 42	6 14	17 35	6	14 25	29	40	13	23	
14	22 36	12 50	8 8	29 54	11 12	23 28	25 54	27 40	5 15	22 20	
15	23 33	13 59	10 5	12 m 0	18	42 26	19	39	16	16	
16	24 30	15 8	12 3	23 58	24	56 26	45	38	18	13	
17	25 28	16 17	14 4	5 51	30 24	9 27	10	38	20	10	
18	26 25	17 26	16 7	17 45	36	23 27	37	37	22	7	
19	27 22	18 36	18 12	29 44	42	37 28	3	36	24	4	
20	28 19	19 45	20 18	11 m 52	49	51 28	30	35	26	1	
21	29 17	20 54	22 26	24 13	11 55	25 5	28 57	27 34	5 27	21 57	
22	0 5	22 4	24 35	6 † 48	12 1	18 29	24	33	29	54	
23	1 11	23 13	26 46	19 41	8	32 29	52	32	31	51	
24	2 8	24 23	28 56	2 50	14	46 0	20	31	33	48	
25	3 5	25 32	1 5	8 16	21 26	0 0	48	30	35	45	
26	4 3	26 42	3 19	29 59	27	13 1	16	29	37	41	
27	5 0	27 52	5 30	13 53	34	27 1	44	28	39	38	
28	5 57	29 2	7 41	27 58	12 41	26 41	2	13 27	27 5	41 21	35
29	6 54	0 Π 12	9 51	12 9	47	55 2	42	26	43	32	
30	7 51	1 2	12 0	26 23	12 54	27 8	3	11 27	25 5	45 21	29

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1918.

Full Moon June 24th in $\nu^9 2^\circ 8'$

Declination of the Planets

D	S	T	⊙	N	♀	N	♂	N	D	S	♂	N	♀	N	♂	N	♀	N	♂	N
1	4	36	21	59	8	45	14	2	6	26	18	37	22	47	4	28	12	58	18	55
2		40	22	7	9	8	14	31	0	57		36		48		18		58	18	55
3		44		15	9	31	15	1	4	^N 39		35		49		8		58	18	55
4		48		22	9	54	15	3	2	10	3	33		50	3	58		58	18	54
5		52		29	10	17	16	3	14	55		32		51		48		58	18	54
6		56		36	10	40	16	34	18	55		30		52		37		58	18	54
7	5	0	22	42	11	2	17	6	21	44	18	29	22	53	3	27	12	58	18	53
8		4		48	11	25	17	38	23	8		27		54		16		59	18	53
9		8		53	11	47	18	10	23	5		26		55		5		59	18	52
0		12		59	12	9	18	41	21	38		25		57	2	54		59	18	52
1		16	23	3	12	31	19	13	19	2		23		57		43		59	18	52
2		20		7	12	52	19	44	15	32		21		57		32		59	18	51
3		23		11	13	14	20	15	11	25		19		58		21		59	18	51
4	5	27	23	15	13	35	20	44	6	56	18	18	22	59	2	10	13	0	18	51
5		31		18	13	56	21	13	2	15		16	23	0	1	58		0	18	50
6		35		20	14	17	21	41	2	^S 27		15		0		47		0	18	50
7		39		22	14	37	22	7	7	2		13		1		35		0	18	49
8		43		24	14	57	22	32	11	23		12		2		23		1	18	49
9		47		25	15	17	22	35	15	18		10		3		12		1	18	48
0		51		26	15	37	23	16	18	40		8		3	1	0		1	18	48
1	5	55	23	27	15	56	23	35	21	15	18	6	23	4	0	48	13	2	18	47
2		59		27	16	15	23	5	22	51		4		4		36		2	18	47
3	6	3		27	16	34	24	6	23	17		2		5		23		2	18	46
4		7		26	16	52	24	17	22	27		1		5		11		3	18	46
5		11		25	17	10	24	26	20	19	17	59		6	0	^S 1		3	18	46
6		15		23	17	27	24	32	17	0		58		6		14		4	18	45
7		19		21	17	45	24	35	12	42		57		7		26		4	18	45
8	6	23	23	19	18	1	24	36	7	40	17	55	23	7	0	39	13	5	18	45
9		27		16	18	18	24	33	2	13		51		8		52		5	18	44
0	6	30	23	13	18	34	24	28	3	^N 23	17	50	23	9	1	4	13	6	18	44

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July 1918

New Moon July 8th in ♄ 15° 29'

Longitude of the Planets

D	♈	♀	♊	♈	♈	♈	♈	♈	♈	♈	♈	♈
°	♈	♈	♈	♈	♈	♈	♈	♈	♈	♈	♈	♈
1	8 49	2 32	14 8	10 38	13 1	27 22	3 41	27 23	5 47	21 26		
2	9 46	3 42	16 15	24 50	8	35 4	11	22	49	22		
3	10 43	4 52	18 20	8 58	15	49 4	40	21	51	19		
4	11 40	6 2	20 24	22 59	22 28	3 5	11	19	53	16		
5	12 38	7 13	22 26	6 52	28	16 5	41	18	55	13		
6	13 35	8 23	24 26	20 34	35	30 6	12	16	57	10		
7	14 32	9 34	26 25	4 5	13 43	28 43	6 42	27 15	5 59	21 7		
8	15 29	10 44	28 22	17 20	50	57 7	13	13 6	1	4		
9	16 26	11 55	0 17	0 21	57 29	10 7	44	11	4	0		
10	17 24	13 5	2 10	13 6	14 4	24 8	16	10	6	57		
11	18 21	14 16	4 1	25 36	11	37 8	47	8	8 20	54		
12	19 18	15 27	5 50	7 52	18	51 9	19	6	10	50		
13	20 15	16 38	7 37	19 57	25 0	5 49	51	5	12	47		
14	21 13	17 49	9 22	1 54	14 33	0 17	10 23	27 3	6 14	20 44		
15	22 10	18 59	11 6	13 47	40	30 10	56	1	16	41		
16	23 7	20 10	12 48	25 40	47	44 11	28 26	59	19	38		
17	24 4	21 22	14 27	7 39	55	57 12	1	57	21	35		
18	25 2	22 33	16 5	19 47	15 2	1 10	12 34	56	23	31		
19	25 59	23 44	17 41	2 10	10	23 13	7	54	25	28		
20	26 56	24 55	19 15	14 52	17	36 13	40	52	27	25		
21	27 53	26 6	20 47	27 51	15 24	1 49	14 13	26 50	6 30	20 22		
22	28 51	27 18	22 17	11 20	32 2	2 14	47	48	32	19		
23	29 48	28 29	23 45	25 8	39	15 15	21	46	34	16		
24	0 45	29 41	25 11	9 15	47	28 15	55	44	36	13		
25	1 42	0 52	26 35	23 38	54	41 16	29	41	38	9		
26	2 40	2 4	27 57	8 9	16 2	54 17	3	39	41	6		
27	3 37	3 15	29 17	22 44	9 3	6 17	37	37	43	3		
28	4 34	4 27	0 34	7 15	16 17	3 19	18 12	26 35	6 45	20 1		
29	5 32	5 39	1 50	21 38	25	32 18	46	33	47	57		
30	6 29	6 51	3 4	5 49	32	44 19	21	31	50	54		
31	7 27	8 2	4 15	19 47	18 40	3 57	19 56	26 29	6 52	19 50		

SIMPLIFIED SCIENTIFIC
EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July 1918

Full Moon July 23rd in ϖ $29^{\circ} 28'$

Declination of the Planets

D	S	T	☉ N	♀ N	♂ N	D N	♂ N	♂ N	♂ S	♂ S	♂ N									
1	6	34	23	9	18	49	24	20	8	48	17	48	23	9	1	17	13	6	18	43
2		38		5	19	5	24	10	13	45		46		9		30		6		43
3		42		1		19	23	57	17	54		44		10		43		7		42
4		46	22	56		34	23	42	21	1		42		10		56		7		42
5		50		51		47	23	24	22	50		40		10	2	9		8		41
6		54		45	20	1	23	4	23	16		38		10		23		8		41
7	6	58	22	39	20	13	22	43	22	18	17	36	23	11	2	36	13	9	18	40
8	7	2		33		26	22	19	20	7		34		11		49		9		40
9		6		26		38	21	54	16	55		32		11	3	3		10		39
10		10		19		49	21	28	12	59		30		11		16		10		39
11		14		11	21	0	20	59	8	35		28		11		29		11		38
12		18		3		10	20	30	3	55		26		11		43		11		38
13		22	21	55		20	20	0	0	s49		24		12		57		12		37
14	7	26	21	46	21	29	19	28	5	28	17	22	23	12	4	10	13	12	18	37
15		30		37		37	18	56	9	54		20		12		24		14		36
16		34		28		45	18	22	13	58		17		12		38		14		36
17		38		18		53	17	48	17	30		15		12		51		15		35
18		41		8	22	0	17	14	20	22		13		12	5	5		15		34
19		45	20	58		6	16	38	22	20		11		12		19		16		33
20		49		47		12	16	3	23	13		9		12		33		17		33
21	7	53	20	35	22	17	15	27	22	53	17	7	23	11	5	47	13	18	18	32
22		57		24		21	14	50	21	14		5		11	3	1		18		32
23	8	1		12		25	14	14	18	19		2		11		15		19		31
24		5		0		29	13	37	14	16		0		11		29		20		31
25		9	19	47		31	13	1	9	21	16	58		11		43		21		30
26		13		34		33	12	24	3	51		56		10		57		21		30
27		17		21		35	11	48	1	N51		54		10	7	11		27		29
28	8	21	19	7	22	35	11	11	7	26	16	51	23	10	7	25	13	23	18	29
29		25	18	54		36	10	35	12	34		49		10		39		24		28
30		29		39		35	9	59	16	56		47		9		53		24		28
31	8	33	18	25	22	34	9	24	20	17	16	45	23	9	8	7	13	25	18	27

[illegible]

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August 1918

Full Moon August 22nd in ♋ 28° 34'

Declination of the Planets

D	S	T	☉ N	♀ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ S	♂ S	♂ N
1	8	37	18 10	22 32	8 49	22 25	16 42	23 9	8 21	13 26	18 26	
2		41	17 55		30 8	14 23	12 40		9 8	35 27		25
3		45	17 40		27 7	41 22	39 38		8 8	49 28		25
4		48	17 24		23 7	8 20	51 35		8 9	3 28		24
5		52	17 8		19 6	35 18	0 33		8 9	11 29		24
6		56	16 52		14 6	4 14	20 31		7 9	32 30		23
7	9	0	16 35	22 8	5 33	10 6	16 29	23 7	9 46	13 31	18 23	
8		4	16 19		2 5	4 5	32 27		6 10	0 31		22
9		8	16 2	21 55	4 36	0 49	24		6 10	14 32		22
10		12	15 44		47 4	9 3	s52 22		5 10	28 33		21
11		16	15 27		39 3	43 8	23 20		5 10	42 34		21
12		20	15 9		31 3	20 12	33 17		4 10	56 34		20
13		24	14 51		21 2	57 16	14 15		4 11	10 35		20
14	9	28	14 33	21 11	2 37	19 18	16 12	23 3	11 24	13 36	18 19	
15		32	14 14		1 2	19 21	34 10		3 11	38 37		19
16		36	13 55	20 49	2 2	22 52	8		2 11	52 38		18
17		40	13 36		38 1	48 23	1 6		2 12	6 39		18
18		44	13 17		25 1	37 21	56 4		1 12	19 40		17
19		48	12 58		12 1	28 19	35 1		1 12	33 40		17
20		52	12 38	19 59	1 22	16 1	15 59		0 12	47 41		16
21	9	55	12 19	19 44	1 19	11 25	15 57	23 0	13 1	13 42	18 16	
22		59	11 59		30 1	19 6	3 55	22 59	13 15		43	15
23	10	3	11 38		14 1	23 0	17 52		59 13	28 44		15
24		7	11 18	18 59	1 30	5 N30	49		58 13	42 44		15
25		11	10 58		42 1	40 10	57 47		57 13	55 45		14
26		15	10 37		25 1	53 15	40 45		56 14	9 46		13
27		19	10 16		8 2	11 19	22 43		56 14	22 47		13
28	10	23	9 55	17 50	2 31	21 50	15 40	22 55	14 36	13 48	18 12	
29		27	9 34		31 2	54 22	56 38		55 15	49 48		12
30		31	9 12		12 3	21 22	42 36		54 15	2 49		11
31	10	35	8 51	16 53	3 50	21 13	15 34	22 53	15 15	13 50	18 11	

EPHEMERIS OF THE PLANETS' PLACES

September 1918

New Moon September 5th in $\text{m}\gamma$ $12^{\circ} 6'$

Longitude of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC
EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September 1918

Full Moon September 20th in $\times$ $26^{\circ} 42'$

Declination of the Planets

D	S	T	☉ N	♀ N	♂ N	♂ N	♂ N	♂ N	♂ S	♂ S	♂ N									
1	10	39	8	29	16	33	4	20	18	40	15	31	22	53	15	28	13	51	18	10
2		43	8	8	16	13	4	53	15	16	29		52	41		51			10	
3		47	7	46	15	52	5	26	11	15	27		51	54		52			9	
4		51	7	24	15	30	5	59	6	50	25		51	16	7	53			9	
5		55	7	1	15	9	6	32	2	12	22		50		20	54			8	
6		59	6	39	14	47	7	5	2	s28	20		50		33	54			8	
7	11	3	6	17	14	24	7	35	6	59	15	18	22	49	16	45	13	55	18	7
8		6	5	54	14	1	8	4	11	14	15		48	58		56			7	
9		10	5	32	13	37	8	30	15	2	13		47	17	10	57			6	
10		14	5	9	13	14	8	53	18	15	11		47	22	57			6		
11		18	4	46	12	50	9	13	20	44	9		46	34	58			5		
12		22	4	23	12	25	9	29	22	18	7		46	47	59			5		
13		26	4	1	12	0	9	41	22	51	4		45	59	14	0			4	
14	11	30	3	38	11	35	9	49	22	15	15	2	22	44	18	10	14	0	18	4
15		34	3	15	11	9	9	53	20	27		0	43	22		1			3	
16		38	2	51	10	44	9	52	17	28	58		42	34		1			3	
17		42	2	28	10	17	9	48	13	24	56		42	45		2			2	
18		46	2	5	9	51	9	39	8	26	53		41	57		3			2	
19		50	1	42	9	24	9	27	2	51	51		41	19	8	4			1	
20		54	1	19	8	57	9	10	2	N59	49		40		19	4			1	
21	11	58	0	55	8	30	8	50	8	42	14	47	22	39	19	30	14	5	18	1
22	12	2	0	32	8	2	8	27	13	50	45		39	41		5			0	
23		6	0	9	7	35	8	0	18	2	43		38	52		6			0	
24		10	0	s15	7	7	7	30	20	59	41		38	20	2	6			0	
25		13	0	38	6	39	6	58	22	31	39		37	13		7	17		59	
26		17	1	2	6	10	6	23	22	37	37		37	23		7			59	
27		21	1	25	5	42	5	46	21	25	35		36	33		8			58	
28	12	25	1	48	5	13	5	8	19	6	14	33	22	35	20	43	14	8	17	58
29		29	2	12	4	44	4	28	15	55	31		34	53		9			58	
30	12	33	2	35	4	15	3	46	12	5	14	29	22	34	21	2	14	9	17	57

[illegible]

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November 1918

New Moon November 3rd in ♍ 10° 15'

Longitude of the Planets

D	☉ ♍'	♀ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂ ♍'	♂
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SIMPLIFIED SCIENTIFIC
EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November 1918

Full Moon November 18th in γ $25^{\circ} 20'$

Declination of the Planets

S T	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂
S	S	S	S	S	N	N	S	S	N	N
14 39	14 16	11 20	18 20	9 6	13 37	22 25	24 26	14 18	17 56	
43	35	11 47	18 51	13 4	36	25	29	18	50	
47	54	12 14	19 21	16 33	35	25	31	18	50	
51	15 13	12 41	19 51	19 21	33	25	33	18	50	
55	31	13 7	20 19	21 20	32	25	35	18	50	
59	50	13 33	20 46	22 21	31	25	37	18	50	
15 3	16 8	13 58	21 13	22 19	13 30	22 25	24 38	14 18	17 50	
7	25	14 23	21 38	21 10	29	26	39	18	50	
11	43	14 48	22 2	18 57	28	26	40	18	50	
15	17 0	15 12	22 26	15 44	27	26	40	18	49	
19	17	15 36	22 48	11 39	27	26	41	17	49	
23	34	16 0	23 9	6 52	26	26	41	17	49	
27	50	16 23	23 28	1 36	25	27	40	17	49	
15 31	18 6	16 46	23 47	3 N 53	13 24	22 27	24 40	14 17	17 49	
35	21	17 8	24 4	9 16	23	28	39	17	50	
38	37	17 30	24 20	14 12	23	28	38	17	50	
42	52	17 52	24 35	18 15	22	29	36	16	50	
46	19 6	18 13	24 49	21 3	22	29	35	16	50	
50	21	18 33	25 1	22 22	21	30	33	16	50	
54	35	18 53	25 12	22 8	21	30	31	16	50	
15 58	19 48	19 12	25 22	20 29	13 20	22 31	24 28	14 15	17 50	
16 2	20 2	19 31	25 30	17 43	20	31	25	15	50	
6	15	19 50	25 37	14 6	19	32	22	14	50	
10	27	20 8	25 42	9 57	19	32	19	14	50	
14	39	20 25	25 46	5 29	18	33	15	14	50	
18	51	20 41	25 49	0 55	18	33	12	14	50	
22	21 2	20 57	25 50	3 S 38	17	34	7	13	50	
16 26	21 13	21 13	25 49	8 0	13 17	22 34	24 3	14 13	17 50	
30	24	21 28	25 47	12 4	17	35	23 58	12	51	
16 34	21 34	21 42	25 44	15 41	13 17	22 36	23 53	14 11	17 51	

Longitude of the Planets

[illegible]

Declination of the Planets

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	8935	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	.90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	55	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5695	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	46	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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Date	Long.	Dec.	Date	Long.	Dec.
January 20	5° 50' 05" R	19° N 08'	July 19	6° 50' 37'	19° N 24'
February 19	4° 50' 39'	19° N 12'	August 18	7° 50' 15'	19° N 22'
March 21	4° 50' 30'	19° N 17'	September 17	7° 50' 39'	19° N 20'
April 20	4° 50' 42" D	19° N 21'	October 17	7° 50' 53'	19° N 19'
May 20	5° 50' 12'	19° N 24'	November 16	7° 50' 27" R	19° N 19'
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SIMPLIFIED SCIENTIFIC
EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1919

New Moon January 2nd, 8:24 a. m., $\text{WS } 10^{\circ} 54'$

New Moon January 31st, 11:7 p. m., $\text{WS } 11^{\circ} 2'$

Longitude of the Planets

D.	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° W'	° W'	° E'	° E'	° E'	° E'	° E'	° E'	° E'	° E'	° E'	° E'
1	10	2 19 18	18 28	29 59	27R46	10R51	9 31	25 11	8 R40	11 41		
2	11	3 20 33	19 3	12W50	44	43	10 18	14	39	38		
3	12	4 21 49	19 38	25 58	41	35	11 6	17	38	35		
4	13	5 23 4	20 24	9 W21	39	27	11 53	20	36	32		
5	14	7 24 20	21 11	22 57	36	19	12 40	22	34	29		
6	15	8 25 35	22 5	6 X43	33	11	13 27	25	33	26		
7	16	9 26 50	23 0	20 39	27 30	10 3	14 15	25 28	8 32	11 23		
8	17	10 28 5	24 2	4 Y40	27 9	55 15	2	31	30	19		
9	18	11 29 21	25 4	18 46	24	47 15	49	34	28	16		
10	19	12 0 W36	26 11	2 8 56	21	39 16	36	37	27	15		
11	20	14 1 52	27 18	17 6	17	31 17	24	40	25	10		
12	21	15 3 7	28 29	1 II17	14	24 18	11	43	23	7		
13	22	16 4 22	29 41	15 25	11	16 18	59	45	21	4		
14	23	17 5 32	0 W56	29 II27	27 7 9	8 19	46	25 48	8 20	11 0		
15	24	18 6 53	2 11	13 W20	3	0 20	33	51	19 10	57		
16	25	19 8 8	3 29	27 1	0 8	53 21	20	54	17	54		
17	26	20 9 23	4 47	10 W27	26 56	45 22	8	58	15	51		
18	27	21 10 38	6 8	23 34	52	38 22	55	26 1	14	47		
19	28	22 11 54	7 29	6 W23	48	31 23	43	4	12	44		
20	29	23 13 9	8 51	18 54	44	24 24	30	7	10	41		
21	0 W24	14 24	10 14	1 2 9	26 40	8 17	25 17	26 10	8 8	10 38		
22	1 25	15 39	11 38	13 11	36	10 26	4	13	7	35		
23	2 26	16 55	13 3	25 4	32	3 26	52	16	6	32		
24	3 27	18 10	14 29	6 W53	28 7	57 27	39	19	4	28		
25	4 28	19 25	15 56	18 44	23	50 28	27	23	2	25		
26	5 29	20 40	17 24	0 42	19	44 29	14	26	1	22		
27	6 30	21 55	18 52	12 52	15	37 0	X1	29 7	59	19		
28	7 31	23 10	20 21	25 18	26 10	7 31	0 48	26 33	7 57	10 16		
29	8 32	24 25	21 51	8 W4	6	25 1	36	37	55	13		
30	9 33	25 40	23 22	21 11	1	19 2	23	40	53	9		
31	10 34	26 55	24 53	4 W41	25 56	7 13	3 11	26 43	7 51	10 6		

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1919

Full Moon January 16th, 8:44 a. m., $\simeq 25^{\circ} 12'$

Declination of the Planets

Day	S T		☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	H	M	° S	° S	° S	° S	° S	° S	° S	° S	° S	° S	° S	° S	° S	° S	° S	° S	° S	° S	° S
W	1	18 40	23 4	23 6	20 19	21 54	13 31	23 2	19 0	13 48	18 0										
T	2	44	22 59	22 56		29 20	13 32	2 18	47	47	0										
F	3	48	54	46		40 17	27 33	3 33	46	0											
S	4	52	48	36		51 13	43 34	4 20	45	1											
S	5	56	42	24 21	3 9	14 35	5 6	44	1												
M	6	19 0	35	12		15 4 14	36	6 17	53	43	1										
F	7	19 4	22 28	21 59	21 27	1 N 1	13 37	23 6	17 39	13 42	18 2										
W	8	7	20	46		39 6 16	39	7 25	41	2											
T	9	11	12	31		51 11 14	40	8 10	40	3											
F	10	15	4	17 22	2 15	36 41	8 16	56 39	3												
S	11	19 21	55	1		13 19 5	43	9 41	38	4											
S	12	23	46	20 45		23 21 25	44	10 26	37	4											
M	13	27	36	29		32 22 23	45	11 11	36	5											
F	14	19 31	21 26	20 11	22 41	21 56	13 47	23 11	15 56	13 35	18 5										
W	15	35	15	19 54		49 20 8	48	12 41	34	5											
T	16	39	4	35		56 17 12	50	12 25	33	6											
F	17	43	20 53	16 23	2 13	24 51	13 9	32	6												
S	18	47	41	18 57		7 9 3	53	14 14	53	7											
S	19	51	29	37		11 4 25	54	14 38	30	7											
M	20	55	17	16		14 0 s 17	56	15 21	28	8											
F	21	19 59	20 4	17 55	23 16	4 54	13 57	23 16	14 5	13 27	18 8										
W	22	20 3	19 51	33		17 9 14	59	16 13	49	26	8										
T	23	7	37	11		16 13 11	14 0	17 32	25	9											
F	24	11	23	16 49		14 16 35	2	17 16	24	9											
S	25	14	8	25		12 19 20	3	18 12	59	23	10										
S	26	18	18 54	2		7 21 15	5	18 42	22	10											
M	27	22	39	15 38		2 22 14	7	19 25	20	11											
T	28	20 26	18 23	15 14	22 55	22 9	14 8	23 19	12 8	13 19	18 11										
W	29	30	8	14 49		47 20 55	10	20 11	50	18	12										
T	30	34	17 51	24		38 18 33	12	2 33	17	12											
F	31	20 38	17 35	13 58	22 27	15 8	14 13	23 21	11 16	13 16	18 12										

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1919

No New Moon in February

Longitude of the Planets

D.	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	11 35	23 10	26 25	18 29	25 51	7 7	3 58	26 46	7 49	10 5	
2	12 36	29 25	27 58	2 34	47		2 45	50	48		0
3	13 37	0 40	29 31	16 49	43 6	57 5	32	54	46 9	57	
4	14 38	1 56	1 51	1 10	38	52 6	20	58	44	54	
5	15 39	3 10	2 40	15 30	33	47 7	7 27	1	42	51	
6	16 40	4 25	4 16	29 46	28	42 7	54	4	41	48	
7	17 40	5 40	5 53	13 56	25 23	6 37	8 41	27 7	7 39	9 45	
8	18 41	6 55	7 30	27 57	19	33 9	29	10	37	42	
9	19 42	8 10	9 8	11 50	14	29 10	16	13	36	39	
10	20 43	9 25	10 47	25 34	9	25 11	3	17	35	36	
11	21 43	10 39	12 27	9 10	4	21 11	50	21	33	33	
12	22 44	11 54	14 7	22 37	24 59	18 12	37	25	31	29	
13	23 44	13 9	15 48	5 53	54	14 13	24	28	29	26	
14	24 45	14 24	17 30	18 58	24 50	6 11	14 11	27 31	7 28	9 23	
15	25 46	15 38	19 13	1 50	45	8 14	58	35	26	20	
16	26 46	16 53	20 57	14 28	40	5 15	45	39	24	17	
17	27 47	18 7	22 42	26 52	35	2 16	32	42	23	14	
18	28 47	19 22	24 28	9 3	30	0 17	19	45	22	11	
19	29 48	20 36	26 15	21 3	25 5	57 18	6	49	20	7	
20	0 48	21 51	28 2	2 55	21	55 18	53	53	18	4	
21	1 49	23 5	29 51	14 43	24 16	5 53	19 40	27 56	7 17	9 1	
22	2 49	24 20	1 40	26 33	11	52 20	27	59	16 8	58	
23	3 49	25 34	3 30	8 29	6	50 21	13	28 3	14	55	
24	4 50	26 49	5 21	20 38	1	49 22	0	7	12	52	
25	5 50	28 3	7 13	3 4	23 56	48 22	47	10	11	48	
26	6 51	29 18	9 6	15 52	52	47 23	34	13	10	45	
27	7 51	0 32	11 0	29 5	47	46 24	20	16	9	42	
28	8 51	1 46	12 54	12 46	23 48	5 45	25 7	28 19	7 8	39	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February, 1919

Full Moon February 14th, 11:38 p.m., Ω $24^{\circ} 57'$

Declination of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1919

New Moon March 2nd, 11:11 a. m., ♄ 9° 58'

New Moon March 31st, 9:4 p. m., ♀ 10° 28'

Longitude of the Planets

D.	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	9 51	3 0	14 49	26 52	23R39	5 R15	25 54	28 22	7 R 7	8 36	36
2	10 52	4 15	16 44	11♄19	34	45 26	41	26	5	33	33
3	11 52	5 29	18 39	26 0	29	45 27	27	29	3	29	29
4	12 52	6 43	20 35	10 ♀ 48	25	45 28	14	32	1	26	26
5	13 52	7 57	22 30	25 34	20	45 29	0	36	0	23	23
6	14 52	9 11	24 25	10 8 11	16	d46	29 47	40	6 59	21	21
7	15 52	10 25	26 19	24 34	23 11	5 47	0 ♀ 33	28 43	6 58	8 17	17
8	16 52	11 39	28 14	8 II 41	7	48 1	20	46	57	14	14
9	17 52	12 53	0 ♀ 5	22 31	3	49 2	6	49	56	10	10
10	18 52	14 7	1 57	6 ♄ 6	22 59	51 2	53	53	55	7	7
11	19 52	15 20	3 44	19 25	55	53 3	39	56	53	4	4
12	20 52	16 34	5 32	2 ♀ 32	51	55 4	25	59	52	1	1
13	21 52	17 48	7 13	15 27	47	57 5	11 29	2	51 7	58	58
14	22 51	19 2	8 55	28 11	22 43	5 59	5 58	29 6	6 50	7 55	55
15	23 51	20 15	10 28	10 ♄ 44	39 6	2 6	42	9	49	52	52
16	24 51	21 29	12 2	23 7	36	4 7	30	12	48	48	48
17	25 51	22 42	13 26	5 ♄ 19	32	7 8	16	15	47	45	45
18	26 50	23 56	14 50	17 22	28	10 9	2	19	46	42	42
19	27 50	25 9	16 2	29 18	24	13 9	48	22	45	39	39
20	28 50	26 23	17 14	11 ♄ 7	21	16 10	34	25	44	36	36
21	29 49	27 36	18 12	22 55	22 18	6 20	11 20	29 28	6 43	7 33	33
22	0 ♀ 49	28 50	19 11	4 ♄ 44	15	23 12	6	32	42	29	29
23	1 48	0 8 3	19 55	16 39	11	27 12	51	35	41	26	26
24	2 48	1 16	20 40	28 45	8	31 13	37	38	40	23	23
25	3 47	2 29	21 9	11 ♄ 9	5	35 14	23	41	39	20	20
26	4 47	3 42	21 39	23 54	3	40 15	9	44	39	17	17
27	5 46	4 55	21 53	7 ♄ 5	0	44 15	54	47	38	14	14
28	6 45	6 8	22 7	20 45	21 57	6 49	16 40	29 50	6 38	7 11	11
29	7 45	7 21	22 7	4 ♄ 54	54	54 17	25	53	37	7	7
30	8 44	8 34	22R 6	19 29	52	59 18	11	55	37	4	4
31	9 43	9 47	21 51	4 ♀ 23	21 49	7 4	18 56	29 58	6 36	7 1	1

Calculated for Mean Noon at Greenwich

March, 1919

Full Moon March 16th, 3:41 p. m., $m\gamma$ $25^{\circ} 9'$

Declination of the Planets

Day	S. T.		° S		° N		° S		° D		° N		° N		° S		° S		° N			
	H	M	°	'	°	'	°	'	°	'	°	'	°	'	°	'	°	'	°	'		
S	1	22	32	7	52	0	14	7	16	7	56	15	2	23	28	2	18	12	42	18	24	
S	2		36	7	29	0	45	6	25	2	41		4		28	1	59		41		25	
M	3		40	7		1	16	5	33	2	N47		5		28		40		40		25	
T	4		44	6	43	1	47	4	40	8	8		7		28		21		39		25	
W	5		48	6	20	2	19	3	46	13	1		8		28		2		37		26	
T	6		52	5	57	2	50	2	52	17	4		10		28	0	43		36		26	
F	7	22	56	5	34	3	21	1	57	20	1	15	11	23	29	0	24	12	35	18	26	
S	8	23		0	5	11	3	52	1	2	21	39		13		29		5		33	27	
S	9		4	4	47	4	23	0	7	21	55		14		29	0	N13		32		27	
M	10		8	4	24	4	54	0	N46	20	53		15		29		32		31		28	
T	11		12	4		0	5	24	1	41	18	42		17		29		51		30	28	
W	12		16	3	37	5	55	2	34	15	34		18		29	1	10		29		28	
T	13		20	3	13	6	25	3	27	11	44		19		29		29		28		28	
F	14	23	24	2	50	6	56	4	18	7	26	15	21	23	29	1	48	12	27	18	29	
S	15		28	2	26	7	26	5	8	2	54		22		29	2	6		26		29	
S	16		32	2		2	56	5	55	1	S41		23		29		25		24		29	
M	17		36	1	39	8	26	6	41	6	9		24		29		44		23		29	
T	18		39	1	15	8	55	7	24	10	20		26		28	3	3		22		30	
W	19		43	0	51	9	25	8	5	14	3		27		28		21		21		30	
T	20		47	0	27	9	54	8	43	17	12		28		28		40		20		30	
F	21	23	51	0		4	10	23	9	17	19	37	15	29	23	28	3	58	12	19	18	30
S	22		55	0	N19	10	52	9	49	21	11		30		28	4	17		18		31	
S	23		59	0		43	11	21	10	16	21	50		31		28		35		17	31	
M	24	0		3	1	6	11	49	10	40	21	27		32		28		54		16	31	
T	25			7	1	30	12	17	11	1	20	2		33		28	5	12		15	31	
W	26		11	1	53	12	45	11	17	17	35		34		28		30		14		32	
T	27		15	2	17	13	12	11	30	14	10		35		28		49		13		32	
F	28	0	19	2	41	13	39	11	33	9	54	15	36	23	27	6	7	12	12	18	32	
S	29		23	3		4	14	6	11	42	4	58		37		27		25		11	32	
S	30		27	3	27	14	32	11	42	0	N22		38		27		43		10		32	
M	31	0	31	3	51	14	58	11	38	5	50	15	33	23	27	7	0	12	9	18	32	

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1919

New Moon April 30th, 5:30 a. m., γ $8^{\circ} 32'$

Longitude of the Planets

D.	☉ ° γ'	♀ ° γ'	♂ ° γ'	♂ ° γ'	♂ ° Ω'	♂ ° Ω'	♂ ° γ'	♂ ° γ'	♂ ° Ω'	♂ ° Ω'	♂ ° Ω'
1	10 42	11 0	21R36	19 29	21R47	7	9 19 42	0	1 6 R36	6	57
2	11 42	12 12	21 9	4 8 36	44	15	20 27	4	36	53	
3	12 41	13 25	20 42	19 35	42	21	21 13	7	35	50	
4	13 40	14 37	20 5	4 II 17	40	27	21 58	9	35	47	
5	14 39	15 50	19 28	18 40	38	33	22 43	11	34	44	
6	15 38	17 2	18 44	2 5 39	36	39	23 28	14	34	41	
7	16 37	18 15	18 1	16 17	21 35	7	45 24 14	0	17 6	33 6	37
8	17 36	19 27	17 14	29 33	33	51	24 59	19	33	33	
9	18 35	20 39	16 28	12 Ω 31	32	58	25 45	22	33	30	
10	19 34	21 51	15 42	25 13	30 8	5	26 29	25	32	27	
11	20 33	23 4	14 56	7 m 42	29	12	27 14	28	32	24	
12	21 31	24 16	14 14	20 0	27	19	27 59	30	32	20	
13	22 30	25 28	13 32	2 2 9	26	26	28 44	32	31	17	
14	23 29	26 39	12 56	14 10	21 25	8	33 29 28	0	34 6	31 6	14
15	24 28	27 51	12 21	26 5	24	41	0 8 13	37	31	11	
16	25 26	29 3	11 54	7 m 56	23	48	0 58	39	31	7	
17	26 25	0 II 15	11 27	19 44	23	56	1 43	41	31	4	
18	27 24	1 26	11 10	1 1 32	22 9	4	2 27	43	31	1	
19	28 22	2 38	10 53	13 23	22	12	3 12	46	d 31 5	58	
20	29 21	3 49	10 45	25 21	21	20	3 56	48	32	55	
21	0 8 19	5 1	10 38	7 v 29	21 21	9	29 4 41	0	50 6	32 5	52
22	1 18 6	12 10	10 d 41	19 53	21	37	5 25	52	32	48	
23	2 16 7	23 10	10 44	2 35	21	45	6 9	55	32	45	
24	3 15 8	34 10	10 57	15 42	21	54	6 53	57	33	42	
25	4 13 9	45 11	10 29	15	21 10	3	7 38	59	33	39	
26	5 12 10	56 11	10 32	13 16	21	12	8 22	1	33	36	
27	6 10 12	8 11	10 54	27 45	21	21	9 6	3	33	33	
28	7 8 13	18 12	10 24	12 γ 36	21 d 21	10	30 9 50	1	5 6	33 5	29
29	8 7 14	29 12	10 55	27 43	22	39	10 35	7	34	26	
30	9 5 15	39 13	10 43	12 8 56	21 23	10	48 11 19	1	9 6	34 5	23

SIMPLIFIED SCIENTIFIC

EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

April, 1919

Full Moon April 15th, 8:25 a. m., $\approx 24^{\circ} 10'$

Declination of the Planets

Day	S. T.		☉		♀		♂		♂		♂		♂		♂		♂	
	H	M	°	N	°	N	°	N	°	N	°	N	°	N	°	N	°	N
T	1	0	35	4	14	15	24	11	30	11	0	15	39	23	27	7	18	12
W	2		39	4	37		49	11	18	15	30		39		26		36	7
T	3		43	5	0	16	14	11	3	18	57		40		26		54	6
F	4		47	5	23		39	10	44	21	4		41		26	8	11	5
S	5		50	5	46	17	3	10	22	21	45		41		26		28	4
S	6		54	6	9		27	9	57	21	1		42		25		46	3
M	7	0	58	6	32	17	50	9	30	19	4	15	42	23	25	9	3	12
T	8	1	2	6	54	18	13	9	1	16	8		43		25		20	2
W	9		6	7	17		35	8	31	12	29		43		24		37	1
T	10		10	7	39		57	8	0	8	20		44		24		54	0
F	11		14	8	1	19	19	7	28	3	54		44		24	10	11	11
S	12		18	8	23		40	6	57	0	36		44		23		28	58
S	13		22	8	45	20	0	6	26	5	2		45		23		44	57
M	14	1	26	9	7	20	20	5	56	9	14	15	45	23	23	11	1	11
T	15		30	9	29		39	5	28	13	3		45		22		17	55
W	16		34	9	50		58	5	1	16	20		45		22		33	55
T	17		38	10	11	21	17	4	36	18	55		46		21		49	54
F	18		42	10	33		34	4	14	20	42		46		21	12	5	53
S	19		46	10	54		52	3	54	21	35		46		20		21	52
S	20		50	11	14	22	8	3	36	21	28		46		20		37	51
M	21	1	54	11	35	22	21	3	21	20	22	15	46	23	19	12	53	11
T	22		57	11	55		40	3	8	18	16		46		19	13	8	50
W	23	2	1	12	16		55	2	58	15	14		46		18		23	49
T	24		5	12	36	23	9	2	51	11	23		46		17		38	49
F	25		9	12	55		22	2	46	6	51		46		16		54	48
S	26		13	13	15		35	2	44	1	48		46		16	14	8	48
S	27		17	13	34		48	2	45	3	N30		45		15		23	47
M	28	2	21	13	54	23	59	2	47	8	44	15	45	23	15	14	38	11
T	29		25	14	13	24	11	2	52	13	33		45		14		52	46
W	30	2	29	14	31	24	21	3	0	17	31	15	45	23	14	15	7	11

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1919

Eclipse of Sun May 29th, 1:11 p. m., Π $7^{\circ} 9'$

Longitude of the Planets

D.	☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
	° 8'	° 11'	° 14'	° 17'	° 20'	° 23'	° 26'	° 29'	° 32'	° 35'	° 38'
1	10 3	16 50	14 13	28 6	21 24	10 58	12 3	1 10	6 34	5 20	
2	11 1	18 0	14 59	13 11	25 3	11 7	12 47	11	35	16	
3	12 0	19 11	15 45	27 41	26	17 13	31	12	35	13	
4	12 58	20 21	16 37	11 54	27	26 14	14	14	36	10	
5	13 56	21 31	17 30	25 42	28	36 14	58	16	36	6	
6	14 54	22 41	18 29	9 4	29	46 15	41	17	36	3	
7	15 52	23 52	19 28	22 3	21 31	11 56	16 25	1 18	6 37	5 0	
8	16 50	25 1	20 33	4 41	32 12	6 17	8	20	38	4 56	
9	17 48	26 11	21 38	17 4	34	17 17	52	22	39	53	
10	18 46	27 20	22 48	29 13	35	27 18	35	23	40	50	
11	19 44	28 30	23 58	11 13	37	37 19	19	24	41	47	
12	20 42	29 39	25 13	23 6	39	48 20	2	25	42	44	
13	21 40	0 49	26 29	4 56	41	59 20	46	27	42	41	
14	22 38	1 58	27 49	16 44	21 43	13 9	21 29	1 28	6 43	4 38	
15	23 36	3 7	29 10	28 34	46	20 22	12	29	44	35	
16	24 33	4 16	0 8	35 10	48	31 22	55	30	45	32	
17	25 31	5 25	2 0	22 24	50	42 23	39	32	46	28	
18	26 29	6 32	3 29	4 29	52	53 24	22	33	47	25	
19	27 27	7 40	4 59	16 46	55 14	4 25	5	34	48	22	
20	28 24	8 49	6 33	29 15	58	15 25	48	35	49	19	
21	29 22	9 59	8 12	2 2	22 1	14 26	26 31	1 35	6 50	4 16	
22	0 20	11 7	9 46	25 8	4	37 27	13	36	51	13	
23	1 18	12 16	11 25	8 36	7	49 27	56	37	52	10	
24	2 15	13 23	13 8	22 27	10 15	0 28	39	38	53	7	
25	3 13	14 31	14 52	6 42	13	12 29	22	38	54	4	
26	4 11	15 38	16 39	21 18	17	23 0	11 4	38	55	1	
27	5 8	16 46	18 27	6 12	20	35 0	47	39	56	3 58	
28	6 6	17 53	20 19	21 15	22 23	15 47	1 29	1 40	6 57	3 55	
29	7 3	19 1	22 11	6 21	27	59 2	12	40	59	52	
30	8 1	20 8	24 7	21 19	30 16	11 2	54	40 7	0	49	
31	8 50	21 15	26 4	6 2	22 34	16 23	3 37	1 40	7 1	3 46	

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1919

Full Moon May 15th, 1:2 a. m., m 22° 41'

Declination of the Planets

Day	S. T.		☉		♀		♂		☽		♂		☽		♂		☽				
	H	M	°	N	°	N	°	N	°	N	°	N	°	N	°	N	°	N			
T	1	2	33	14	50	24	31	3	9	20	15	15	44	23	13	15	21	11	44	18	33
F	2		37	15	8		40	3	21	21	32		44		12		35		44		33
S	3		41		26		48	3	34	21	18		44		12		49		43		33
S	4		45		44		56	3	49	19	40		43		11	16	2		43		33
M	5		49	16	1	25	3	4	7	16	56		43		10		16		42		33
T	6		53		18		9	4	26	13	22		42		9		29		42		33
W	7	2	57	16	35	25	15	4	46	9	16	15	42	23	9	16	42	11	41	18	33
T	8	3		1	52		20	5	9	4	52		41		8		55		41		33
F	9		5	17	8		24	5	32	0	22		41		7	17	8		40		33
S	10		8		24		28	5	58	4	s 3		40		6		21		40		32
S	11		12		40		31	6	24	8	18		39		5		33		40		32
M	12		16		56		33	6	52	12	11		39		4		46		39		32
T	13		20	18	11		35	7	21	15	34		38		3		58		39		32
W	14	3	24	18	26	25	36	7	51	18	20	15	37	23	2	18	10	11	38	18	32
T	15		28		40		36	8	23	20	19		36		1		22		38		32
F	16		32		55		35	8	55	21	24		35		0		33		37		32
S	17		36	19	8		34	9	29	21	32		35	22	59		45		37		31
S	18		40		22		32	10	3	20	39		34		58		56		37		31
M	19		44		35		29	10	38	18	2		32		56		18		36		31
T	20		48		48		26	11	14	16	48		33		57	19	7		36		31
W	21	3	52	20	1	25	22	11	51	12	27	15	31	22	55	19	29	11	36	18	30
T	22		56		13		18	12	28	8	12		30		54		39		36		30
F	23	4	0		25		12	13	6	3	26		29		52		49		35		30
S	24		4		37		7	13	44	1	N 37		28		51	20	0		35		30
S	25		8		48		0	14	23	6	45		27		50		10		35		29
M	26		12		59	24	53	15	1	11	38		26		49		19		35		29
T	27		15	21	9		45	15	40	15	55		24		47		29		35		29
W	28	4	19	21	20	24	36	16	19	19	11	15	23	22	46	20	38	11	35	18	23
T	29		23		29		27	16	58	21	8		22		45		47		35		28
F	30		27		39		18	17	36	21	34		21		43		56		35		28
S	31	4	31	21	48	24	7	18	14	20	29	15	19	22	42	21	5	11	35	18	27

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1919

New Moon June 27th, 8:56 p. m., ϖ 5° 6'

Longitude of the Planets

D.	☉ ° II'	♀ ° ♄'	♂ ° ♀'	♂ ° ♄'	♂ ° ♀'	♂ ° ♀'	♂ ° ♀'	♂ ° ♀'	♂ ° ♀'	♂ ° ♀'	♂ ° ♀'
1	9 56	22 21	28 4	20 24	22 38	16 35	4 19	1 41	7 2	3 43	43
2	10 53	23 28	0 II 5	4 ♀ 20	42	47 5	2	41	4	40	40
3	11 51	24 34	2 9	17 50	46	59 5	44	41	5	37	37
4	12 48	25 41	4 13	0 ♀ 54	50	17 11	6 26	42	6	34	34
5	13 46	26 47	6 20	13 35	54	23 7	8	42	8	31	31
6	14 43	27 53	8 28	25 57	58	35 7	50	42	10	28	28
7	15 41	28 58	10 38	8 ♄ 4	23 3	17 47	8 32	1 42	7 12	3 25	25
8	16 38	0 ♀ 4	12 48	20 0	7 18	0 9	14	41	14	22	22
9	17 35	1 9	14 59	1 ♀ 50	12	12 9	56	41	16	19	19
10	18 33	2 14	17 11	13 38	16	25 10	39	R 41	17	16	16
11	19 30	3 18	19 23	25 27	20	37 11	20	41	18	13	13
12	20 27	4 23	21 36	7 ♀ 20	25	50 12	2	40	19	10	10
13	21 25	5 27	23 47	19 20	30	19 2	12 44	40	21	7	7
14	22 22	6 32	25 58	1 ♀ 29	23 35	19 15	13 26	1 40	7 23	3 4	4
15	23 19	7 35	28 8	13 48	40	27 14	7	39	25	1	1
16	24 17	8 39	0 ♄ 18	26 19	45	40 14	48	39	27 2	58	58
17	25 14	9 42	2 25	9 ♄ 3	50	53 15	30	38	29	55	55
18	26 11	10 46	4 33	22 1	55	20 6	16 12	38	30	52	52
19	27 8	11 48	6 32	5 ♀ 15	24 0	19 16	53	37	32	48	48
20	28 6	12 51	8 31	18 44	6	32 17	35	37	34	45	45
21	29 3	13 53	10 36	2 ♀ 31	24 11	20 45	18 16	1 36	7 36	2 42	42
22	0 ♄ 0	14 55	12 42	16 35	17	58 18	57	36	37	39	39
23	0 57	15 57	14 38	0 ♀ 54	22 21	11 19	38	35	39	36	36
24	1 55	16 59	16 35	15 28	28	24 20	20	34	41	33	33
25	2 52	18 0	18 27	0 II 11	33	37 21	1	33	43	29	29
26	3 49	19 1	20 19	14 58	39	50 21	42	32	45	26	26
27	4 46	20 1	22 7	29 42	45	22 3	22 23	31	47	23	23
28	5 44	21 1	23 55	14 ♄ 17	24 51	22 16	23 4	1 30	7 49	2 19	19
29	6 41	22 1	25 38	28 35	56	29 23	45	29	51	15	15
30	7 38	23 1	27 22	12 ♀ 32	25 2	22 42	24 26	1 28	7 52	2 11	11

SIMPLIFIED SCIENTIFIC
EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1919

Full Moon June 13th, 4:28 p. m., $\pm 21^{\circ} 47'$

Declination of the Planets

Day	S. T.		☉	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	H	M	° N'	° N'	° N'	° N'	° N'	° N'	° N'	° N'	° N'	° S'	° N'	° N'
S	1	4	35	21 56	23 56	18 52	18 5	15 18	22 41	21 14	11 34	18 26		
M	2		39	22 5	45 19	29 14	41 17	39	22	34	26			
T	3		43	13	33 20	4 10	38 15	38	30	34	26			
W	4		47	20	20 20	39 6	12 14	36	38	34	26			
T	5		51	27	8 21	12 1	38 13	35	46	34	25			
F	6		55	34	22 53	21 44	2 53	11	33	53	34	25		
S	7	4	59	22 40	22 39	22 14	7 13	15 10	22 32	22 0	11 35	18 25		
S	8	5	3	46	24 22	42 11	13 8	30	8	35	24			
M	9		7	52	9 23	8 14	45 7	29	14	35	24			
T	10		11	57	21 53	23 31	17 41	5	27	21	35	23		
W	11		15	23 1	37 23	52 19	53 3	25	28	35	23			
T	12		19	6	20 24	11 21	13 2	24	34	35	22			
F	13		22	10	3 24	26 21	36 0	22	40	35	22			
S	14	5	26	23 13	20 45	24 39	20 59	14 59	22 20	22 46	11 35	18 22		
S	15		30	16	27 24	49 19	21 57	19	51	36	21			
M	16		34	19	8 24	57 16	47 55	17	57	36	21			
T	17		38	21	19 49	25 1	13 23	53	15	23 2	36	20		
W	18		42	23	30 25	3 9	18 52	13	7	36	20			
T	19		46	25	10 25	2 4	42 50	11	12	36	19			
F	20		50	26	18 50	24 59	0 12	48	10	16	37	19		
S	21	5	54	23 26	18 29	24 53	5 13	14 46	22 8	23 21	11 37	18 18		
S	22		58	26	8 24	44 10	4 44	6	25	37	18			
M	23	6	2	26	17 47	24 33	14 27	42	4	29	17			
T	24		6	26	26 24	21 18	2 41	2	33	38	17			
W	25		10	25	4 24	6 20	30 39	0	36	38	16			
T	26		14	23	16 42	23 49	21 34	37	21 58	39	16			
F	27		18	21	19 23	30 21	8 35	56	42	39	15			
S	28	6	22	23 19	15 56	23 10	19 17	14 33	21 54	23 45	11 39	18 15		
S	29		26	16	33 22	49 16	15 31	52	48	40	14			
M	30	6	30	23 13	15 10	22 25	12 22	14 29	21 50	23 50	11 40	18 14		

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1919

New Moon July 27th, 5:25 a. m., Ω $3^{\circ} 8'$

Longitude of the Planets

D.	$\odot$ $^{\circ} \text{ } \text{ }'$	$\odot$ $^{\circ} \text{ } \text{ }'$	$\odot$ $^{\circ} \text{ } \text{ }'$	$\odot$ $^{\circ} \text{ } \text{ }'$	$\odot$ $^{\circ} \text{ } \text{ }'$	$\odot$ $^{\circ} \text{ } \text{ }'$	$\odot$ $^{\circ} \text{ } \text{ }'$	$\odot$ $^{\circ} \text{ } \text{ }'$	$\odot$ $^{\circ} \text{ } \text{ }'$	$\odot$ $^{\circ} \text{ } \text{ }'$	$\odot$ $^{\circ} \text{ } \text{ }'$
1	8 35	23 59	29 1	26 4	25 8	22 55	25 7	1 R27	7	54	2 8
2	9 32	24 58	0 41	9 11	15 23	8 25	48	26	56	3	3
3	10 30	25 56	2 15	21 55	21	21 26	28	25	58	0	0
4	11 27	26 54	3 50	4 18	27	35 27	9	24	8	1	57
5	12 24	27 51	5 20	16 25	33	48 27	50	23	3	54	54
6	13 21	28 49	6 51	28 21	39	24 1	28 31	22	5	50	50
7	14 18	29 45	8 17	10 11	25 45	24 14	29 11	1	20	8	46
8	15 16	0 41	9 43	21 59	52	28 29	52	18	9	43	43
9	16 13	1 36	11 4	3 51	58	41 0	32	16	11	40	40
10	17 10	2 32	12 25	15 49	26 5	55 1	13	14	13	37	37
11	18 7	3 26	13 41	27 58	11 25	8 1	53	13	15	34	34
12	19 4	4 20	14 58	10 20	18	21 2	33	12	17	31	31
13	20 2	5 13	16 9	22 56	24	34 3	13	10	19	27	27
14	20 59	6 7	17 21	5 47	26 31	25 48	3	54	1	8	24
15	21 56	6 58	18 27	18 52	38 26	1 4	34	7	23	21	21
16	22 53	7 50	19 33	2 10	45	15 5	14	6	26	18	18
17	23 51	8 40	20 33	15 40	51	28 5	54	4	28	15	15
18	24 48	9 31	21 34	29 22	58	42 6	35	2	30	12	12
19	25 45	10 20	22 28	13 13	27 5	55 7	15	0	32	9	9
20	26 42	11 10	23 23	27 13	12 27	8 7	55	0	58	34	6
21	27 40	11 57	24 11	11 22	27 19	27 21	8	35	0	56	8
22	28 37	12 45	24 59	25 37	26	35 9	15	54	38	1	3
23	29 34	13 31	25 40	9 58	33	48 9	54	52	40	0	57
24	0 31	14 18	26 21	24 21	40 28	2 10	34	51	43	54	54
25	1 29	15 2	26 54	8 42	47	15 11	14	49	45	51	51
26	2 26	15 46	27 27	22 56	54	29 11	54	47	47	48	48
27	3 24	16 29	27 51	6 59	28 1	42 12	33	45	49	45	45
28	4 21	17 12	28 16	20 44	28 9	28 55	13	13	0	43	8
29	5 18	17 52	28 32	4 10	16 29	8 13	52	41	54	38	38
30	6 16	18 33	28 48	17 14	23	22 14	32	39	56	35	35
31	7 13	19 11	28 54	29 56	28 30	29 35	15	11	0	37	8

SIMPLIFIED SCIENTIFIC

EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1919

Full Moon July 13th, 6:2 a. m., φ $19^{\circ} 32'$

Declination of the Planets

[illegible]

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1919

New Moon August 25th, 3:37 p. m., $\text{m} 1^{\circ} 31'$

Longitude of the Planets

D.	☉	♀	♄	♃	♅	♁	♂	♁	♂	♁	♂	♁
	° Ω'	° ♏'	° ♏'	° ♏'	° ♏'	° ♏'	° ♏'	° ♏'	° ♏'	° ♏'	° ♏'	° ♏'
1	8 10	19 50	29 0	12 19	28 38	29 49	15 51	0 R34	9	1 0	29	29
2	9 8	20 26	28R55	24 26	45	0 Ω 2	16 30	32	3	5	22	26
3	10 5	21 2	28 51	6 m 22	52	15	17 10	30	7	19	19	22
4	11 3	21 35	28 36	18 12	59	28	17 49	28	10	15	15	19
5	12 0	22 9	28 21	0 † 1	29 7	42	18 29	26	12	12	12	15
6	12 58	22 40	27 56	11 54	14	55	19 8	24	14	9	9	12
7	13 55	23 11	27 31	23 57	29 22	1	8 19	47 0	22 9	14 0	9	29
8	14 53	23 39	26 56	6 v 14	29	21	20 26	20	16	5	5	26
9	15 50	24 7	26 22	18 47	37	34	21 5	17	19	2	2	22
10	16 48	24 31	25 39	1 m 39	44	47	21 44	15	21	29 59	59	22
11	17 45	24 56	24 57	14 50	52	2	1 22	24	13	23	m 56	22
12	18 43	25 17	24 9	28 18	59	14	23 3	10	25	55	55	22
13	19 40	25 39	23 21	12 † 1	0 m 7	27	23 42	7	28	54	54	22
14	20 38	25 56	22 31	25 55	0	14	2	40	24 20	0	5 9	29 51
15	21 36	26 14	21 41	9 † 57	22	53	24 59	3	32	48	48	29 51
16	22 33	26 27	20 52	24 3	29	3	6 25	38	1	34	45	29 51
17	23 31	26 41	20 48	8 11	37	19	26 17	29 58	36	42	42	29 51
18	24 29	26 51	19 21	22 19	44	31	26 56	m 56	38	38	38	29 51
19	25 26	27 1	18 38	6 II 26	52	44	27 35	54	40	34	34	29 51
20	26 24	27 6	18 4	20 30	1	0	57	28 13	51	42	31	29 51
21	27 22	27 12	17 31	4 53	1	8	4	10	28 52	29 48	9	29 28
22	28 20	27 12	17 9	18 28	15	22	29 30	46	47	24	24	29 28
23	29 18	27 13	16 47	2 Ω 17	23	35	0 Ω 9	44	49	21	21	29 28
24	0 m 16	27R10	16 40	15 56	30	48	0 47	42	51	18	18	29 28
25	1 13	27 6	16 33	29 22	38	5	1 26	39	53	15	15	29 28
26	2 11	26 57	16D41	12 m 32	45	13	2 4	37	55	12	12	29 28
27	3 9	26 49	16 50	25 24	53	26	2 43	35	57	8	8	29 28
28	4 7	26 36	17 14	7 59	2	0	5	38	3	21	29 32	9 59
29	5 5	26 23	17 39	20 17	8	51	4 0	29	10	2	2	29 5
30	6 3	26 5	18 19	2 m 22	16	6	3 4	38	27	4	28	59
31	7 1	25 47	19 0	14 16	2	24	6	16	5	16	29 25	10 6

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1919

Full Moon August 11th, 5:39 p. m., $\approx 18^{\circ} 13'$

Declination of the Planets

Day	S. T.		☉		♀		♂		♂		♂		♂		♂		♂		♂	
	H	M	°	N	°	N	°	N	°	S	°	N	°	N	°	N	°	S	°	N
F	1	8	36	18	13	1	59	8	23	8	21	13	15	20	32	23	18	12	0	17
S	2		40	17	58		35		13	12	18		12		29		14		1	56
S	3		44		43		12		5	15	40		10		27		9		2	56
M	4		48		27	0	50		0	18	21		7		24		4		3	55
T	5		51		11		27	7	57	20	16		5		21		0		3	55
W	6		55	16	55		5		57	21	17		2		18	22	55		4	54
T	7	8	59	16	39	0	s15	8	0	21	21	12	59	20	15	22	50	12	5	17
F	8	9		3	22		36		5	20	23		57		13		44		6	53
S	9			7		5	57		13	18	25		54		10		39		6	52
S	10		11	15	48	1	17		24	15	30		52		7		33		7	52
M	11		15		30		37		38	11	45		49		4		27		8	51
T	12		19		13		56		53	7	21		46		1		21		9	50
W	13		23	14	55	2	14	9	12	2	30		44	19	58		15	10		50
T	14	9	27	14	37	2	32	9	32	2	N32	12	41	19	56	22	9	12	11	17
F	15		31		18		50		53	7	29		39		53		2		12	49
S	16		35	13	59	3	6	10	16	12	5		36		50	21	56		13	48
S	17		39		41		22		40	16	0		33		47		49		18	48
M	18		43		21		37	11	5	18	59		31		44		42		14	47
T	19		47		2		51		30	20	49		28		41		35		15	46
W	20		51	12	43	4	5		55	21	19		25		38		28		16	45
F	21	9	55	12	23	4	17	12	19	20	29	12	23	19	35	21	20	12	16	17
F	22		58		3		29		42	18	25		20		32		13		17	44
S	23	10	2	11	43		39	13	4	15	18		17		29		5		18	44
S	24		6		23		49		24	11	24		15		27	20	57		19	43
M	25		10		2		57		43	7	0		12		24		49		20	43
T	26		14	10	41	5	5		59	2	21		9		21		41		21	43
W	27		18		21		11	14	13	2	s17		7		18		33		22	42
T	28	10	22	10	0	5	16	14	24	6	44	12	4	19	15	20	24	12	22	17
F	29		26	9	38		19		32	10	49		1		12		16		23	41
S	30		30		17		22		37	14	23	11	59		9		7		23	41
S	31	10	34	8	56	5	23	14	39	17	18	11	56	19	6	19	58	12	24	17

SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1919

New Moon September 24th, 4:33 a. m., $\eta\gamma$ $29^{\circ} 41'$

Longitude of the Planets

D.	☉ ° $\eta\gamma'$	♀ ° $\eta\gamma'$	♂ ° Ω'	♂ ° η'	♂ ° $\eta\gamma'$	♂ ° Ω'	♂ ° Ω'	♂ ° $\eta\gamma'$	♂ ° Ω'	♂ ° $\eta\gamma'$	♂ ° Ω'	♂ ° $\eta\gamma'$
1	7 59	25 _R 24	19 55	26 5	2 31	6 28	5 54	29 _R 23	10 8	28 52		
2	8 58	25 2	20 51	7 † 53	39	40	6 33	20	10	46		
3	9 56	24 35	22 0	19 46	46	52	7 11	18	12	45		
4	10 54	24 9	23 10	1 † 50	54	7 5	7 49	16	14	42		
5	11 52	23 39	24 31	14 10	3 1	17	8 27	13	16	39		
6	12 50	23 9	25 53	26 49	9	29	9 5	10	18	36		
7	13 48	22 36	27 25	9 † 51	3 16	7 40	9 43	29 8	10 20	28 33		
8	14 47	22 3	28 57	23 17	24	52	10 21	6	22	29		
9	15 45	21 27	0 _η 36	7 † 4	31	8 4	10 59	4	24	26		
10	16 43	20 52	2 15	21 10	39	16	11 37	1	25	23		
11	17 41	20 15	4 0	5 † 30	46	27	12 14	28 59	27	20		
12	18 40	19 38	5 46	19 58	54	39	12 52	57	29	17		
13	19 38	19 1	7 35	4 8	28 4	1 51	13 30	55	31	14		
14	20 37	18 24	9 24	18 54	4 9	9 3	14 8	28 53	10 33	28 10		
15	21 35	17 47	11 15	3 † 13	16	14	14 45	51	35	6		
16	22 34	17 11	13 7	17 22	24	25	15 23	49	37	3		
17	23 32	16 36	14 59	1 † 21	31	36	16 0	47	39	0		
18	24 31	16 1	16 51	15 10	39	48	16 38	44	40	27 57		
19	25 29	15 28	18 43	28 47	46	59	17 15	42	41	54		
20	26 28	14 56	20 36	12 † 14	53	10 10	17 53	40	42	50		
21	27 27	14 26	22 28	25 29	5 0	10 21	18 30	28 38	10 44	27 47		
22	28 25	13 57	24 20	8 † 32	8	32	19 8	36	46	44		
23	29 24	13 31	26 10	21 21	15	42	19 45	34	48	40		
24	0 † 23	13 6	28 1	3 † 57	22	53	20 22	32	50	37		
25	1 22	12 45	29 50	16 19	29	11 4	20 59	30	52	34		
26	2 21	12 24	1 † 39	28 29	36	15	21 37	28	53	31		
27	3 19	12 7	3 26	10 † 28	43	25	22 14	26	55	27		
28	4 18	11 50	5 14	22 19	5 50	11 35	22 51	28 24	10 57	27 24		
29	5 17	11 38	6 59	4 † 6	57	45	23 28	22	58	21		
30	6 16	11 26	8 45	15 53	6 4	11 56	24 5	28 21	10 59	27 18		

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1919

Full Moon September 10th, 3:54 a. m., $\approx 16^{\circ} 3'$

Declination of the Planets

Day	S. T.		☉		☿		♂		♂		♂		♂		♂	
	H	M	°	N	°	S	°	N	°	S	°	N	°	S	°	N
M	1	10	38	8	34	5	23	14	38	19	28	11	53	19	3	19
T	2		42		12		21	14	34	20	48		51		0	40
W	3		46	7	50		19	14	26	21	12		48	18	57	31
T	4		50		28		14	14	15	20	38		45		54	22
F	5		54		6		9	14	1	19	4		43		51	12
S	6		58	6	44		2	13	43	16	33		40		48	3
S	7	11	2	6	22	4	54	13	22	13	9	11	37	18	45	18
M	8		5	5	59		44	12	58	9	0		35		42	43
T	9		9		37		34	12	31	4	17		32		39	33
W	10		13		14		22	12	2	0	N 44		29		36	23
T	11		17	4	51		9	11	30	5	50		27		34	13
F	12		21		29	3	55	10	55	10	38		24		31	3
S	13		25		6		40	10	19	14	51		22		28	17
S	14	11	29	3	43	3	25	9	40	18	8	11	19	18	25	17
M	15		33		20		8	9	0	20	16		16		22	31
T	16		37	2	57	2	51	8	19	21	5		14		19	21
W	17		41		34		34	7	36	20	34		11		16	10
T	18		45		10		16	6	52	18	49		9		13	16
F	19		49	1	47	1	58	6	7	13	1		6		10	48
S	20		53		24		40	5	21	12	24		3		8	37
S	21	11	57	1	0	1	21	4	35	8	14	11	1	18	5	16
M	22	12	1	0	37		3	3	49	3	45	10	58		2	15
T	23		5		14	0	45	3	2	0	s 48		56	17	59	3
W	24		9	0	s 9		27	2	15	5	16		53		56	15
T	25		13		32		9	1	27	9	26		51		54	40
F	26		16		55	0	N 7	0	40	13	9		48		51	29
S	27		20	1	19		23	0	s 6	16	16		46		48	17
S	28	12	24	1	42	0	40	0	53	18	40	10	43	17	45	15
M	29		28	2	6		55	1	40	20	15		41		43	14
T	30	12	32	2	29	1	10	2	27	20	56	10	38	17	40	14

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1919

New Moon October 23rd, 8:39 p. m., $\approx 29^\circ 45'$

Longitude of the Planets

D.	☉ ° ′	♀ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′
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SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1919

Full Moon October 9th, 1:38 p. m., γ $15^{\circ} 16'$

Declination of the Planets

Day	S. T.		☉		♀		♂		♂		♂		♂		♂		♂		♂		
	H	M	°	S	°	N	°	S	°	S	°	N	°	N	°	N	°	S	°	N	
W	1	12	36	2	52	1	24	3	13	20	42	10	36	17	37	14	30	12	47	17	25
T	2		40	3	16		38	3	59	19	30		34		35		18		48		25
F	3		44	3	39		51	4	45	17	23		31		32		6		48		25
S	4		48	4	2	2	3	5	30	14	24		29		29	13	54		49		24
S	5		52	4	25		14	6	15	10	37		26		27		42		49		24
M	6		56	4	48		24	6	59	6	12		24		24		29		50		24
T	7	13	0	5	12	2	34	7	43	1	20	10	22	17	22	13	17	12	50	17	24
W	8		4	5	35		42	8	26	3	N 45		19		19		5		51		23
T	9		8	5	57		50	9	8	8	44		17		17	12	52		51		23
F	10		12	6	20		56	9	50	13	17		15		14		40		51		23
S	11		16	6	43	3	2	10	32	17	0		13		12		27		52		23
S	12		20	7	6		7	11	12	19	34		10		9		15		52		22
M	13		23	7	28		11	11	52	20	48		8		7		2		52		22
T	14	13	27	7	51	3	15	12	32	20	37	10	6	17	5	11	49	12	53	17	22
W	15		31	8	13		17	13	10	19	7		4		2		37		53		22
T	16		35	8	35		19	13	48	16	32		2		0		24		54		21
F	17		39	8	58		19	14	25	13	6	9	59	16	58		11		54		21
S	18		43	9	20		19	15	2	9	6		57		56	10	58		54		21
S	19		47	9	41		18	15	37	4	45		55		54		45		55		21
M	20		51	10	3		16	16	12	0	16		53		51		32		55		20
T	21	13	55	10	25	3	14	16	46	4	S 8	9	51	16	49	10	19	12	55	17	20
W	22		59	10	46		11	17	19	8	19		49		47		6		56		20
T	23	14	3	11	8		6	17	52	12	7		47		45	9	53		56		20
F	24		7	11	29		2	18	23	15	23		45		43		40		56		19
S	25		11	11	50	2	56	18	53	17	58		43		41		27		56		19
S	26		15	12	10		50	19	23	19	46		41		39		14		57		19
M	27		19	12	31		43	19	51	20	42		39		37		1		57		19
T	28	14	23	12	51	2	35	20	19	20	43	9	38	16	36	8	48	12	57	17	18
W	29		27	13	11		27	20	45	19	48		36		34		35		57		18
T	30		31	13	31		18	21	11	18	0		34		32		21		57		18
F	31	14	34	13	51	2	8	21	35	15	21	9	32	16	30	8	8	12	57	17	18

SIMPLIFIED SCIENTIFIC
EPIHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1919

Eclipse of Sun November 22nd, 3:19 p. m., η $29^{\circ} 16'$

Longitude of the Planets

D.	☉ ° η '	♀ ° $\eta\gamma$ '	♂ ° η '	♂ ° $\approx$ '	♂ ° $\eta\gamma$ '	♂ ° Ω '	♂ ° $\eta\gamma$ '	♂ ° $\approx$ '	♂ ° Ω '	♂ ° η '
1	8	1 23 32	28 16 13	0 9	20	16 20	13 23	27 R 17	11 29	25 39
2	9	1 24 19	29 36 25	57	25	26 13	58	47	29	36
3	10	1 25 6	1 56 9	20	30	32 14	34	47	30	33
4	11	1 25 54	2 14 23	11	35	38 15	9	47	30	30
5	12	1 26 43	3 32 7	29	40	44 15	44	46	31	27
6	13	1 27 33	4 47 22	12	45	49 16	19	46	31	24
7	14	2 28 24	6 27 8	12	9	49 16	54	27 46	11 32	25 21
8	15	2 29 16	7 13 22	22	54	59 17	29	46	32	17
9	16	2 0 $\approx$ 8	8 25 7	II 32	58	17 4	18 4	46	32	14
10	17	2 1 1	9 32 22	33	10 3	9 18	39	46	32	11
11	18	3 1 55	10 39 7	$\approx$ 17	7	13 19	14	47	32	8
12	19	3 2 50	11 40 21	40	11	17 19	48	47	32	5
13	20	3 3 45	12 42 5	Ω 37	16	22 20	23	D 47	32	1
14	21	4 4 41	13 36 19	10	10 20	17 26	20 57	27 48	11 32	24 58
15	22	4 5 37	14 31 2	η 20	23	30 21	32	48	32	55
16	23	5 6 34	15 17 15	8	27	34 22	6	48	32	52
17	24	5 7 31	16 3 27	39	31	37 22	41	48	32	49
18	25	6 8 29	16 37 9	$\approx$ 56	35	41 23	15	49	32	45
19	26	6 9 28	17 12 22	1	38	44 23	49	50	32	42
20	27	7 10 27	17 32 3	η 58	41	46 24	23	50	32	39
21	28	8 11 26	17 53 15	50	10 45	17 49	24 57	27 51	11 32	24 36
22	29	8 12 26	17 57 27	38	49	52 25	31	52	32	32
23	0	1 9 13	18 0 9	1 25	52	54 26	5	53	R 31	29
24	1	10 14 28	17 R 43	21 13	55	56 26	39	54	31	26
25	2	10 15 29	17 27 3	ν 5	58	59 27	13	54	30	23
26	3	11 16 30	16 49 15	2	11 1	18 0 27	46	55	30	19
27	4	12 17 32	16 11 27	8	4	2 28	20	56	29	15
28	5	13 18 35	15 12 9	$\approx$ 25	11 6	18 3 28	53	27 57	11 29	24 12
29	6	13 19 38	14 14 21	58	9	5 29	26	58	29	8
30	7	14 20 41	12 59 4	$\approx$ 50	11 12	18 6 29	59	27 59	11 29	24 4

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1919

Eclipse of Moon November 7th, 11:35 p. m., $8^{\circ} 14' 4''$

Declination of the Planets

Day	S. T.		☉		♀		♂		☿		♂		♂		♂		♂				
	H	M	°	'	°	'	°	'	°	'	°	'	°	'	°	'	°	'			
S	1	14	38	14	11	1	58	21	59	11	57	9	30	16	29	7	55	12	57	17	18
S	2		42		30		48	22	21	7	53		29		27		42		57		18
M	3		46		49		36		42	3	19		27		25		29		57		18
T	4		50	15	8		24	23	1	1	N 34		25		24		15		57		18
W	5		54		26		12		20	6	33		24		22		2		57		17
T	6		58		45	0	59		37	11	17		22		21	6	49		57		17
F	7	15	2	16	3	0	45	23	53	15	26	9	20	16	20	6	36	12	57	17	17
S	8		6		21		31	24	8	18	35		19		18		22		57		17
S	9		10		38		17		21	20	25		17		17		9		57		17
M	10		14		55		2		33	20	46		16		16	5	56		57		17
T	11		18	17	12	0	s 12		43	19	40		15		15		43		57		17
W	12		22		29		28		52	17	18		13		13		29		57		17
T	13		26		45		44		59	14	0		12		12		16		57		17
F	14	15	30	18	1	1	1	25	5	10	3	9	10	16	11	5	3	12	56	17	17
S	15		34		17		18		9	5	43		9		10	4	50		56		17
S	16		38		33		35		11	1	15		8		9		37		56		17
M	17		41		48		53		11	3	s 9		7		9		23		56		17
T	18		45	19	2	2	11		10	7	23		5		8		10		56		17
W	19		49		17		29		6	11	15		4		7	3	57		55		17
T	20		53		31		48		1	14	37		3		6		44		55		17
F	21	15	57	19	45	3	7	24	54	17	23	9	2	16	6	3	31	12	55	17	17
S	22	16	1		58		26		44	19	23		1		5		18		54		18
S	23		5	20	11		46		32	20	33		0		5		5		54		18
M	24		9		23	4	5		18	20	18	8	59		4	2	52		54		18
T	25		13		36		25		1	20	7		58		4		39		54		18
W	26		17		48		45	23	41	18	33		57		3		26		53		18
T	27		21		59	5	6		19	16	8		56		3		13		53		18
F	28	16	25	21	10	5	26	22	55	12	58	8	56	16	3	2	0	12	53	17	18
S	29		29		21		47		23	9	11		55		3	1	47		53		18
S	30	16	33	21	31	6	7	21	59	4	53	8	54	16	3	1	34	12	52	17	18

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1919

New Moon December 22nd, 10:55 a.m., $\uparrow$ $29^{\circ} 31'$

Longitude of the Planets

D.	☉ ° ′	♀ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′
1	8 15	21 44	11R15	18 3	11 14	18 7	0 33	28 0	11R28	24 1	1	
2	9 16	22 48	10 22	1 42	16	7 1	6	1	27	23 57		
3	10 17	23 52	9 0	15 46	19	8 1	39	3	26	53		
4	11 17	24 56	7 41	0 8	16	21	8 2	11	4	25	50	
5	12 18	26 16	22 15	7	23	8 2	44	5	24	47		
6	13 19	27 6	5 16	0 II	14	25	8 3	17	6	24	44	
7	14 20	28 12	4 11	15 29	11 27	18 8	3 50	28 8	11 24	23 41		
8	15 21	29 17	3 25	0 41	28	R 7	4 22	10	23	37		
9	16 22	0m23	2 39	15 40	30	6 4	54	12	22	34		
10	17 23	1 29	2 16	0 19	31	5 5	26	14	21	31		
11	18 24	2 36	1 53	14 31	33	4 5	59	15	20	28		
12	19 25	3 42	1 51	28 15	34	3 6	31	17	19	25		
13	20 26	4 49	1 49	11m30	35	2 7	3	19	18	21		
14	21 27	5 56	2 D 6	24 20	11 36	18 1	7 34	28 21	11 17	23 18		
15	22 28	7 4	2 24	6 49	37	17 58	8 6	22	17	13		
16	23 29	8 11	2 57	19 0	38	56 8	37	24	16	12		
17	24 30	9 19	3 31	0 m59	39	54 9	9	26	15	9		
18	25 31	10 27	4 16	12 49	39	51 9	40	28	14	5		
19	26 32	11 35	5 2	24 36	40	48 10	12	29	12	2		
20	27 33	12 43	5 58	6 4	23	40	45 10	43	31	11 22	53	
21	28 35	13 52	6 54	18 11	11 40	17 43	11 14	28 33	11 10	22 56		
22	29 36	15 1	7 57	0 5	40	40 11	44	35	9	53		
23	0 37	16 10	9 0	12 5	40	36 12	15	38	8	49		
24	1 38	17 19	10 9	24 13	40	32 12	45	40	7	46		
25	2 39	18 28	11 19	6 30	R40	28 13	16	42	6	43		
26	3 40	19 37	12 33	18 57	39	24 13	46	44	5	40		
27	4 42	20 47	13 47	1 38	39	20 14	17	47	3	37		
28	5 43	21 56	15 4	14 32	11 38	17 16	14 46	28 49	11 2	22 3		
29	6 44	23 6	16 21	27 43	38	12 15	16	51	1	3		
30	7 45	24 16	17 41	11 12	37	7 15	46	54	0	2		
31	8 46	25 26	19 2	25 1	11 37	17 2	16 16	28 57	10 58	22 2		

Calculated for Mean Noon at Greenwich

December, 1919

Full Moon December 7th, 10:03 a. m., Π 14° 10'

Declination of the Planets

[illegible]

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	1.5841	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	1.5841	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	8935	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5695	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9825	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9580	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8031	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3876	.0828	.9055	00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1493	1249	1015	0792	0580	0378	0185
1	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	46	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2598	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	50	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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